NOVEMBER 1958

# CCJ

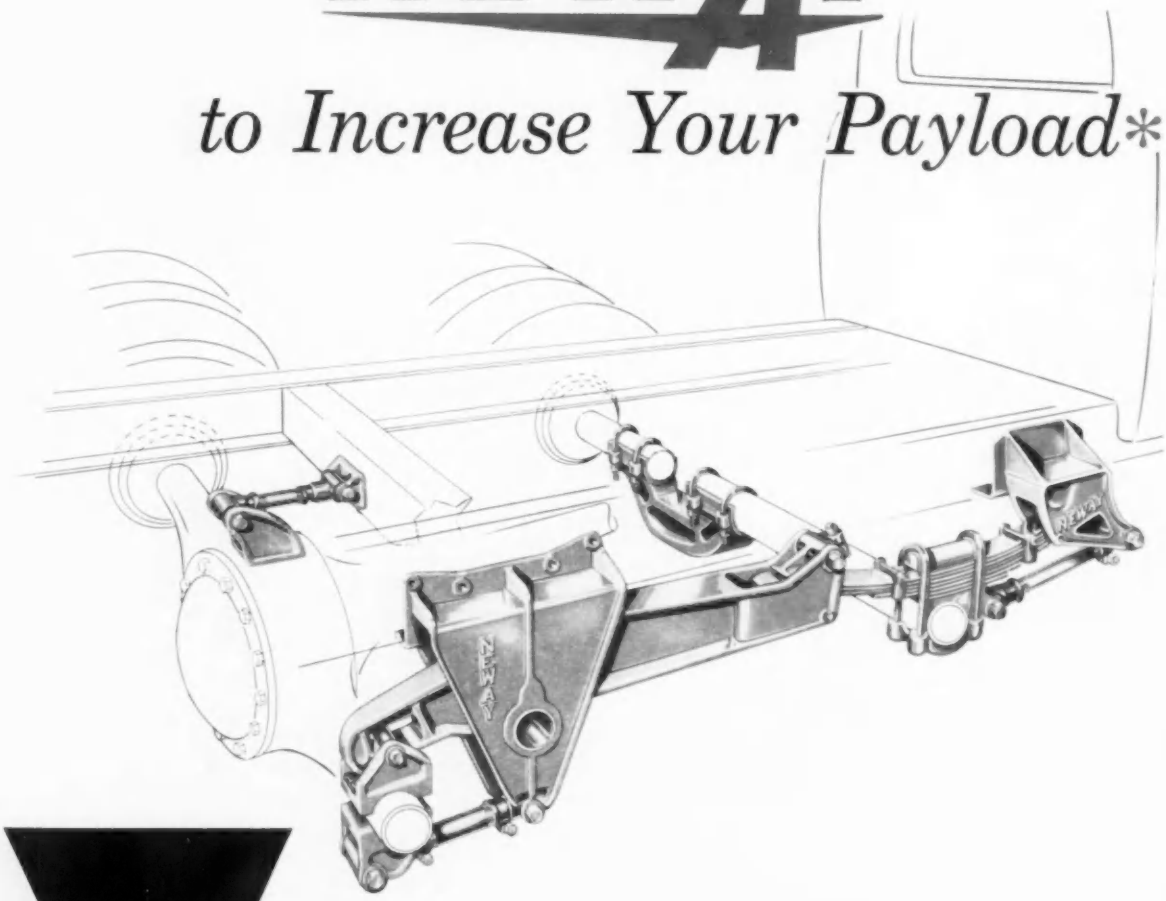
# COMMERCIAL CAR JOURNAL

A CHILTON PUBLICATION

THE MAGAZINE FOR TRUCK AND BUS FLEET OPERATORS

# FLEET BUYERS' DIRECTORY 1959

# *Here is a* NEWAY *to Increase Your Payload**



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More than seven out of ten trucks in use in the United States today were made by manufacturers who use Pedrick FORMFLEX Piston Rings as original equipment and/or for *official* replacement service.

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# COMMERCIAL CAR

November 1958 • Vol. 96 • No. 3

**who's got what you want?..... 73**

. . . for your convenience, an index of products advertised to help you quickly locate those you need

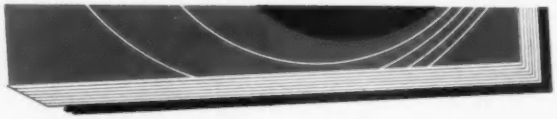
**fleet buyer's product directory. 81**

. . . a complete list of suppliers of vehicles, component parts, shop equipment and supplies to help you find the maker of the items you need for your fleet

**fleetman's association directory. 115**

. . . including national, state and local groups concerned with truck, bus and construction fleet operation

# 1959 fleet buyers' directory



. . . the only COMPLETE-IN-ONE-ISSUE guide to the suppliers of the hundreds of items you use in your fleet operation. It's made possible only by the tremendous automotive resources available to COMMERCIAL CAR JOURNAL as a part of CHILTON COMPANY's Automotive Division.

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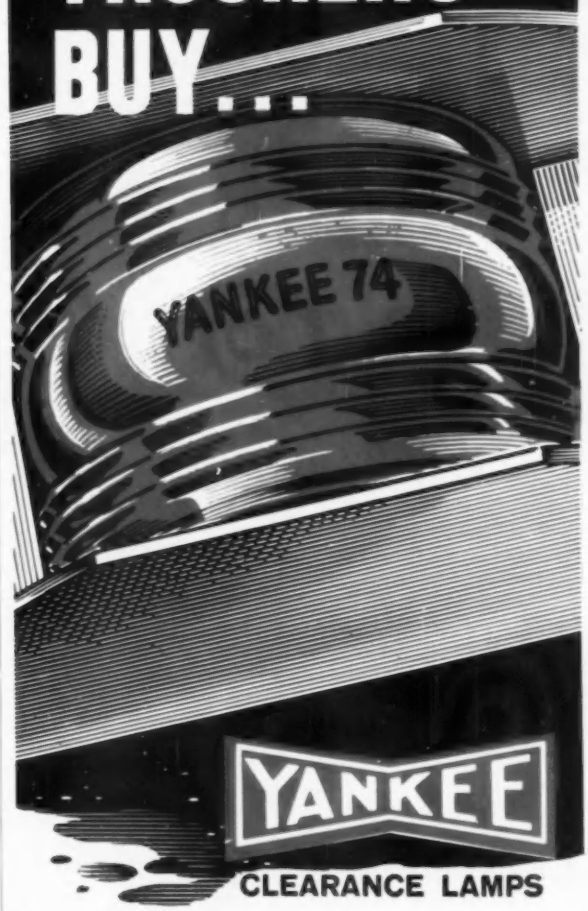


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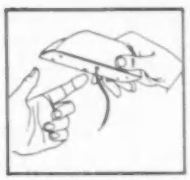

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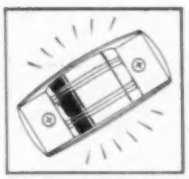

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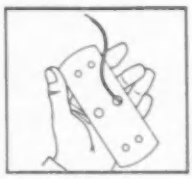

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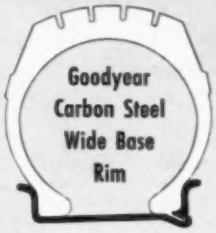
Note how narrow base forces beads together, causing excessive sidewall flex. Result: tire trouble.




First and only proved lightweight carbon steel rim. Tires roll on a broader base, with less flexing, less heat. Proved in 8 years of constant road use.

Exclusive Goodyear Bond-a-Coat finish resists corrosion and discoloration indefinitely.

Stopping tire trouble is always easier, when you know where it starts. Often the troublemaker is the rim.

That's why, for lowest-cost-per-mile, you'll find it pays to specify Goodyear Wide Base Rims. They reduce such common causes of tire failure as tread cracking, tread wear, sidewall failure, ply separation and bead failure.

*In fact, these scientifically engineered rims make possible up to 30% more service from tires.*

What's more, Goodyear Wide Base Rims, in nearly all sizes, weigh less than old-style rims. On a tractor-trailer unit, *this can mean a pay-load increase of as much as 100 pounds.*

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*Buy and Specify* **GOODYEAR** *More tons are carried on Goodyear Rims than on any other kind*

METAL PRODUCTS DIVISION

# THE OVERLOAD

## EDITORIAL COMMENT

### Highway Transportation . . . Key to Alaska's Future

JUST A FEW weeks ago, I had the very great thrill of visiting our 49th state. In isolated Juneau, I talked with highway and other government officials. In Fairbanks and Anchorage, I tracked down military and civilian fleets . . . nearly all of them.

I tramped docks and railroad yards to see first hand the most advanced types of containerized piggy-back and fishy-back operations. I studied the operation of the Government-owned railroad that runs from Seward to Fairbanks. And I quickly learned that Alaskans fly more than any other people in the world. They have to. There are only 1430 miles of paved highway in a land area over twice the size of Texas.

Yet highway transportation is vital to Alaska today.

Why? Because Alaska has all but by-passed the era of the railroad. You can't belittle the part the little one-track line has played in building the great military bases. But like any railroad, its trackage is limited to a tiny fraction of the state. And there won't be any more.

The airplane could still take over — by-passing the era of highway transportation. But it isn't ready. Nothing from the flyboys yet indicates they are ready to take over the job of hauling the cement, the gravel, the general freight that is always necessary in developing a vast new combination of people and natural resources.

How vast? How big? How many people? Nobody knows. But two factors are important—natural resources and statehood.

In Juneau, Al Anderson, of the Alaska Resource Development Board, dragged out a map. He pointed to whole mountains of iron ore, others of copper and gold. He mentioned Sitka, site of a new pulp mill that will be the world's largest. He talked of the 85 helicopters working for the major oil companies and finding new oil fields almost daily. Across the hall, I learned Alaska's national forests are bigger than those of all the rest of the United States combined.

Then on a homestead near Anchorage, an astute friend with many years of on-the-spot experience said this: "Think of Alaska today as being in the same position as the United States in 1776." Up 'til now, it has indeed been much like a "Crown" colony. And apparently many of the interests that helped develop it want to keep it that way.

But the people said "No," voted for statehood. And immediately they started paving the way for what may well be the biggest, single industrial revolution since Adam Smith. People and resources mean industry. To survive there must be low-cost flexible transportation. The truck is the answer.

Watch for a report on Alaska in a coming issue of COMMERCIAL CAR JOURNAL. You'll see why trucks are the key to this state's future.

Bart Rawson
Editor

*Even here in Nevada where you drive from Alpine cold to desert heat . . .*

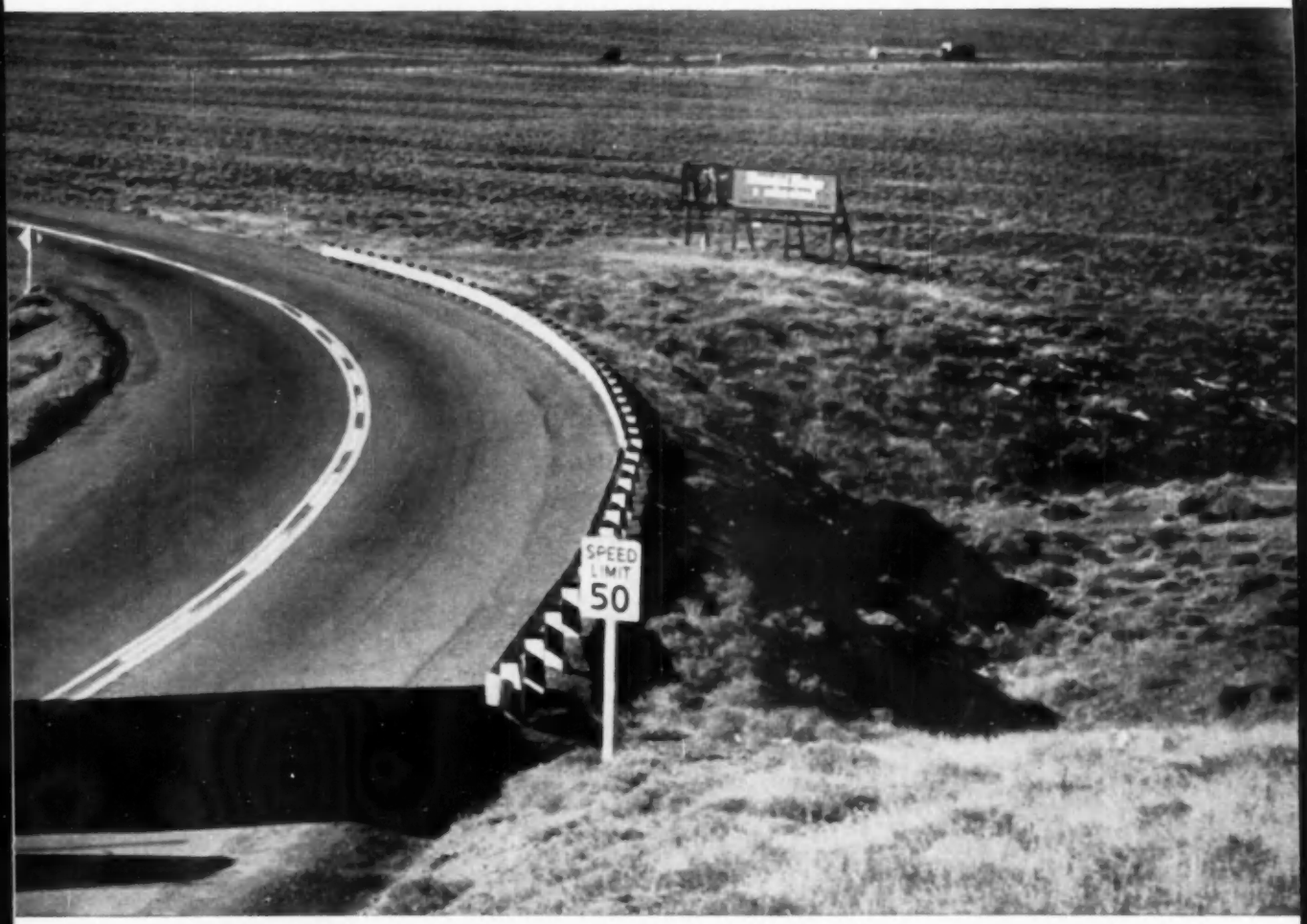
# One Texaco product handles all

This is the lubricant: *Marfak Multi-Purpose 2*—Texaco's new lithium base grease. It puts new punch into the term "multi-purpose grease." It pumps easily at low temperatures . . . stands up to tough, hot grinds . . . resists water washing . . . requires no seasonal change. And it will handle all chassis, wheel bearing, water pump and other lubrication.

Here's why it does such an outstanding job. Texaco Marfak Multi-Purpose 2 is a grease with a fine lithium soap base, a special oxidation inhibitor and a carefully selected oil. Thus it has great oxidation stability and shear resistance. It stays in bearings under steady operating temperatures up to 250° F. . . . has excellent low temperature torque, fine load carrying characteristics.

You can use Texaco Marfak Multi-Purpose 2 as a general purpose grease in trucks, buses—all types of automotive equipment for on- or off-road service.

# chassis, wheel bearing lubrication




Let a Texaco Lubrication Engineer help you simplify your lubrication, reduce your maintenance costs. Just call the nearest of the more than 2,000 Texaco Distributing Plants in the 48 States, or write:

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IN ALL 48 STATES

**LUBRICATION IS A MAJOR FACTOR IN COST CONTROL**

(PARTS, INVENTORY, PRODUCTION, DOWNTIME, MAINTENANCE)

B.F.Goodrich

# Truck owner gets 160,000 miles plus 4 retreads from Traction Express tires!

ROGER SMITH'S trucks make the 4,500-mile round-trip from Mason City, Iowa to the west coast with loads of fresh and frozen meat and fruit. Trucks operate 24 hours a day, up and down mountains, across deserts. Mileage and dependability are two things Smith needs in tires—two things he gets with B.F.Goodrich Traction Express tires.

"They give me over 160,000 miles of service—and I can still retread them 4 times for a total of nearly 450,000 miles," Smith writes. "Traction Express tires have completely eliminated bruise-blowouts!"

One reason for this outstanding service is the B.F.Goodrich FLEX-RITE NYLON cord body. It withstands double the impact of ordinary materials, resists heat blowouts and flex breaks. B.F.Goodrich FLEX-RITE NYLON outwears even the extra-thick Traction Express tread—can be retreaded over and over!

Now you get even more traction because of the new Safety Grip tread. Hundreds of extra skid-resisting, road-gripping edges give you positive pulling power in forward or reverse. Take a tip from fleet operators like Roger Smith. Switch to new B.F.Goodrich Traction Express Safety Grip tires. See your B.F.Goodrich dealer today. He's listed under Tires in the Yellow Pages of your phone book. *B.F.Goodrich Tire Co., A Division of The B.F.Goodrich Co., Akron 18, Ohio.*

**Specify B.F.Goodrich Tubeless or tube-type tires when ordering new trucks or trailers**

# B.F.Goodrich *truck tires*

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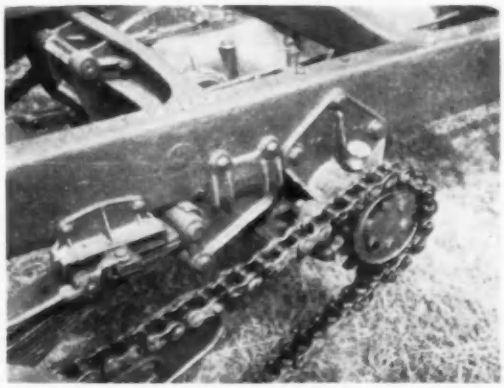
# CCJ AT YOUR SERVICE

**TIMELY NOTES ON MAINTENANCE AND OPERATION** Edited by Ed Shea, Technical Editor

### What's It From?



**Sure you recognize a chain drive when you see one, but can you tell what make and model truck it's on? They don't make them like this anymore (and maybe you're glad they don't), but trucks like these are what gave the trucking industry its start. To see if you guessed right, turn to page 262.**

### Rear Pump Eliminated in Hydra-Matic

CADILLAC, Oldsmobile and Pontiac for '59 equipped with hydra-matic transmissions cannot be started by pushing due to the elimination of the rear oil pump. In case of a dead battery, use jumper cables to start engine. When towing these cars, the manufacturers recommend that towing speed not exceed 30 mph for distances of 50 miles. Transmission shift level should be in neutral position.

### Prevent Short Circuits

WHEN the battery cable has to be removed from starter or starter solenoid, a piece of heater hose about two inches long can be useful. Slip hose over the cable end. This prevents a short circuit, is quicker than removing the battery cable at the battery.

### Watch IHC Instrument Check

WHEN removing International instrument clusters from the panel, a ground wire must be connected and ignition switch should be in "off" position to avoid burning out instruments.

When it becomes necessary to turn the ignition switch "on" to test the instruments on "A" line trucks, Sun Electric Corp. advises you to connect a jumper ground wire from the speedometer head to the steering column mounting bracket bolt. For "R" line trucks, connect ground wire from instrument cluster to instrument panel.

### Keep Air Cleaners Clean

CARBURETOR air cleaners demand attention at regular intervals. A lot depends on locality and driving conditions. A dirty air filter will restrict the incoming air supply and cause an over-rich mixture. This is similar to the effect of a choke in partially closed position which reduces mileage in some cases as much as 10 per cent.

Recently there have been cases where a rough idle complaint was actually caused by a dirty or partially blocked filter.

The new dry type air filter does an almost 100 per cent job of removing abrasive dirt particles from incoming air. They should be shaken clean or replaced, depending on manufacturer's specifications.

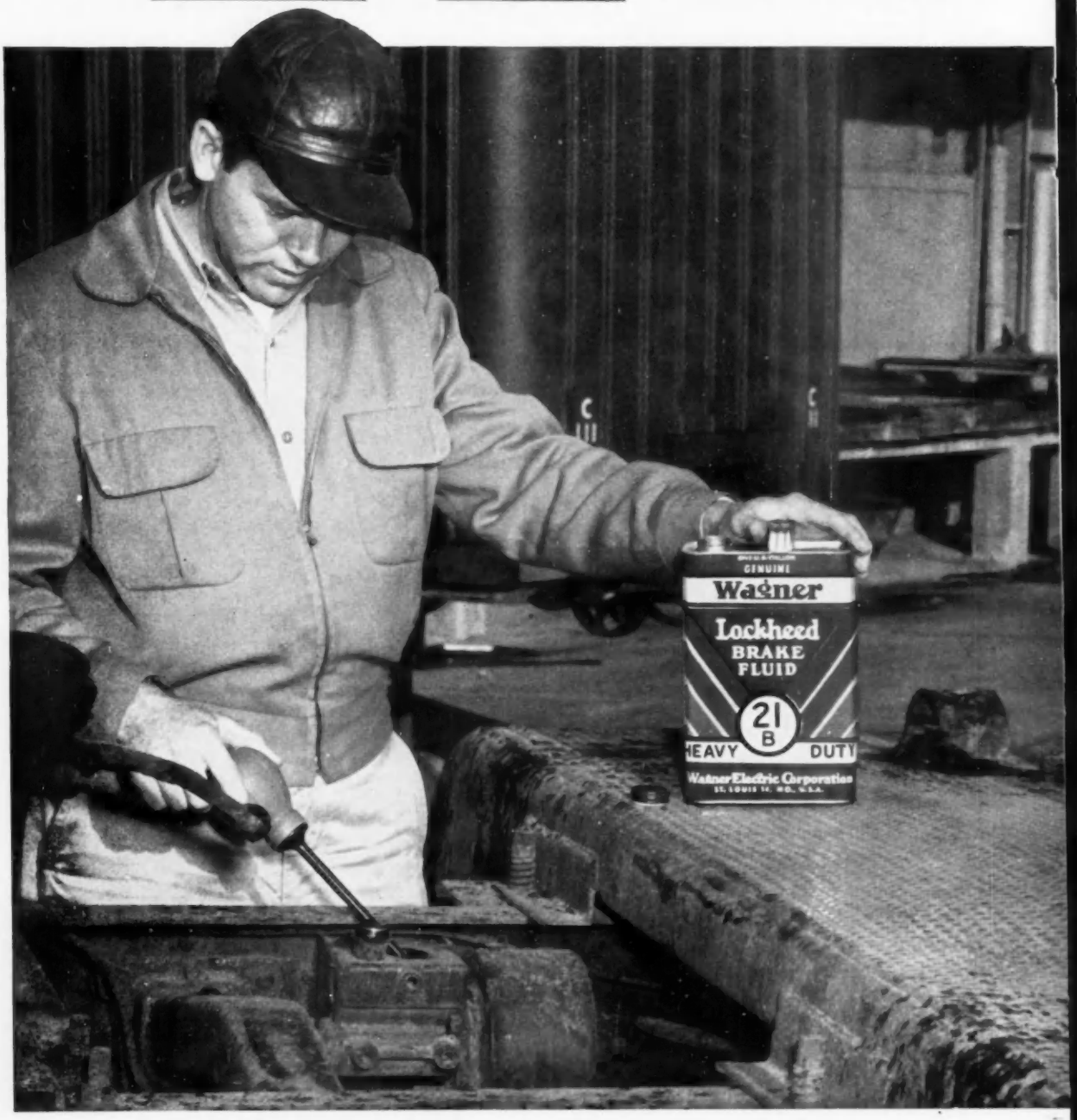
### Don't Get Stuck

MAYBE this has happened around your shop: The service vehicle gets stuck on an icy driveway. What happens? You take three or four mechanics off the job to push the vehicle until it can slip along on its own power.

Let's avoid lost time and order your supply of ice melting chemicals now. Several are on the market such as Ice Rem Super by Speco, Inc., Cleveland, Ohio, and Nacor Melts-It by National Asphalt Corp., Cleveland, Ohio.

(TURN TO PAGE 12, PLEASE)

# It's better...safer...because




# Wagner Lockheed

*... the best known name in brake service*

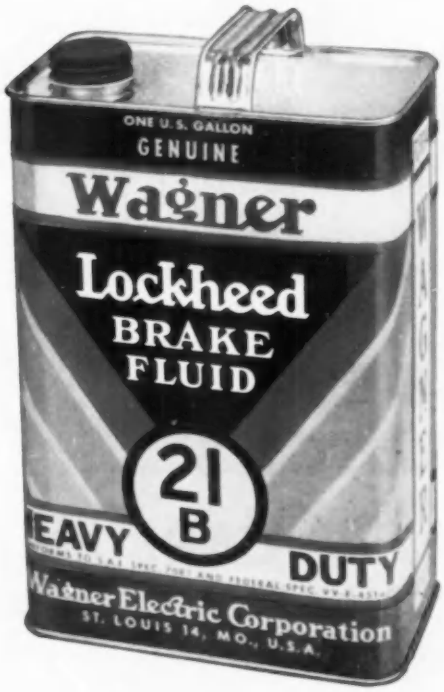
**LOCKHEED BRAKE PARTS, FLUID, EXCHANGE SHOES and LINING • AIR HORNS • AIR BRAKES • TACHOGRAPHS**

# it's chemically balanced!

## Wagner® Lockheed
## HYDRAULIC BRAKE FLUID

### *has proper chemical balance to function under all operating conditions*

IF YOU have vehicles equipped with hydraulic brake systems—for safety's sake standardize on Wagner Lockheed Brake Fluid. Keep the hydraulic system filled with genuine Wagner Lockheed . . . there's none better, none safer . . . surpasses S.A.E. specifications.




**WAGNER LOCKHEED HAS THESE FEATURES:**

- Chemically balanced—so that it maintains high operating temperature characteristics, yet functions in sub-zero temperatures . . . has extreme heat-cold range.
- Does not cause cups or hose to swell.
- Will not rust or corrode metal parts.
- Forms no gummy residue.
- Maintains chemical characteristics even after long use.
- Does not evaporate rapidly.
- Amply lubricates the brake system.
- *Every* batch made is chemically analyzed.
- Has enough moisture absorption so that no separation occurs.
- Used by vehicle manufacturers.
- Packaged in 12 oz., quart, gallon, 5, 30 and 54 gallon containers.

You can get Wagner Lockheed Brake Fluid, Brake Parts, Brake Lining and Exchange Shoes from a convenient, reliable source near you. For details on complete line, ask for *free* copy of Catalog AU-500.

**P.S. When ordering air brakes, specify Wagner Air Brakes—the only system with the Rotary Air Compressor.**

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# *and* CARBURETOR ADJUSTMENT

Let's get down to Brass Tacks. Engine efficiency and fuel economy are only as good as carburetor adjustment. With the Cambridge Exhaust Gas Tester, the service mechanic can attain the most efficient carburetor adjustment in the shortest possible time. This accurate, rugged self-contained instrument continuously indicates the pre-combustion air-fuel ratio by analysis of the exhaust gas.

Models available for testing on the road as well as in the shop.

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*Send for bulletin*

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# CCJ AT YOUR SERVICE

Continued from Page 9

### Chase Reports on Cab Service

CURRENTLY, Chase Maintenance Corp., of New York City is maintaining 107 Plymouth taxicabs, all 1958 models. Various cab operators are using this service.

According to Morris Heit, secretary of Chase, the cabs travel about 200 miles per day or some 6000 miles per month. Traveling this distance, the cabs logged the hourly equivalent of 12,000 miles on each engine. This includes idling at curb, waiting for traffic lights, or caught in rush hour traffic snarls.

Every 3000 charged miles or every 8000 vehicle miles, the oil filter is changed and the crankcase drained (Gulflube XHD oil). This occurs on the average of twice monthly. At the same time the cars are lubricated (Gulfflex Moly grease) and the air filter replaced.

Every five weeks or 7000 charged miles, The carburetor, distributor and generator of every cab are changed. Any repairs necessary to these units are made in this way without taking the taxicab out of service. Spark plugs also are cleaned and adjusted or replaced at the 7000-mile mark. At 75,000 miles, new rings and bearing are installed. After 125,000 miles, the engines are re-bored and new pistons, rings, and bearings are installed. Chase expects from 160,000 to 200,000 miles of service from an engine.

### Dodge Changes Master Cylinder

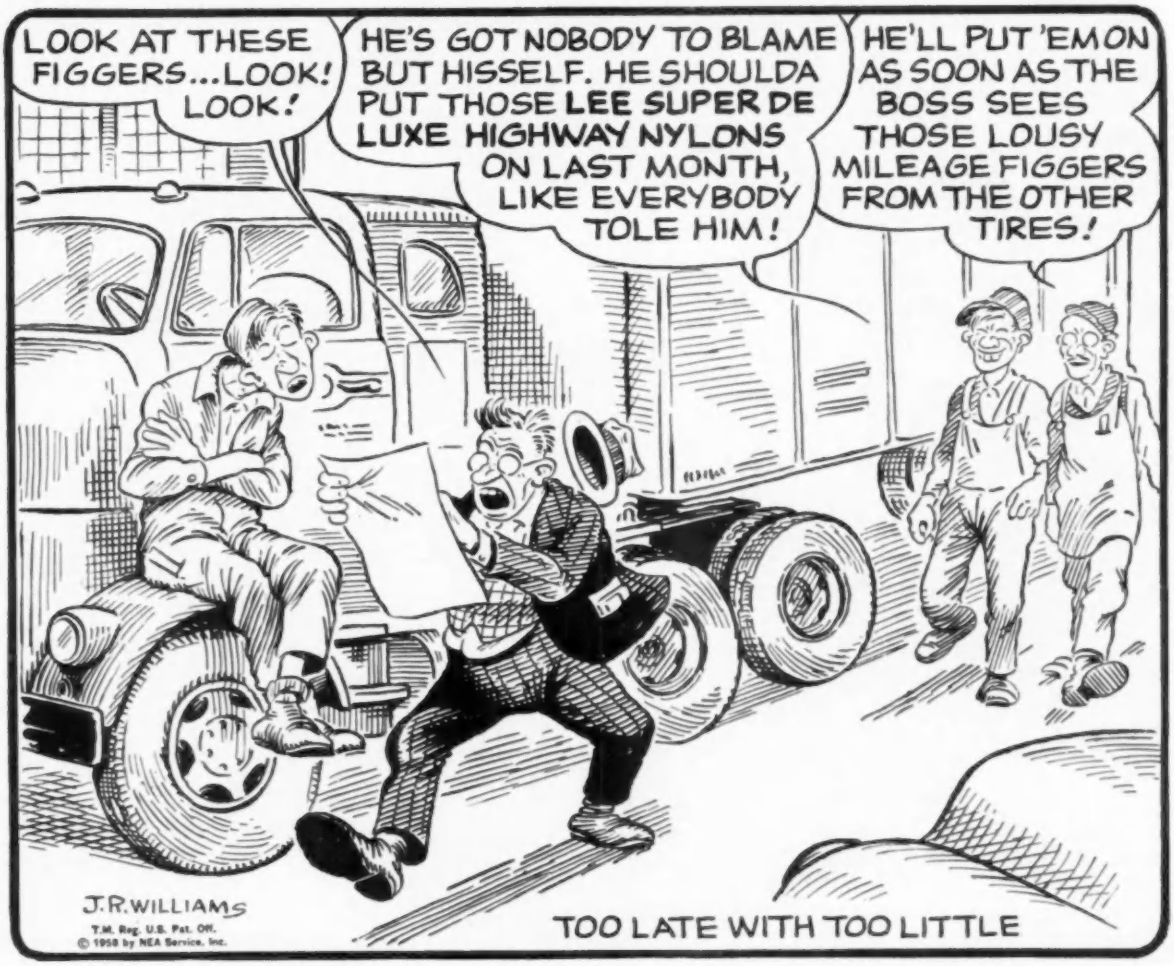
DODGE passenger cars built starting March 9, 1958, with conventional brakes have a pedal stop built into the master cylinder. A Dodge service bulletin says this is to eliminate freeplay adjustment on the master cylinder push rod. Brake pedal stop and pedal return spring are eliminated. Somewhat slower brake pedal return will be noticed when brake pedal is released. This is not detrimental. However should binding action be found at the brake pedal, the cause should be eliminated.

Since the master cylinder piston determines position of brake pedal when brakes are released, free play at pedal is no longer needed. However should the pedal be pulled back by hand, some play may be found due to clearance allowed at the push rod eye for self-alignment of push rod.

Pulling the brake pedal away from the master

(TURN TO PAGE 16, PLEASE)

**OUT OUR WAY** **By J. R. Williams**




# MILEAGE RECORDS ARE MADE AND COSTS GO DOWN

## with Lee Super DeLuxe Highway Nylon Tires

You can have your truck tire economy as simple as 1-2-3 with Lee Super DeLuxe Highway Nylons. These outstanding tires give you 1) long original mileage; 2) extra recaps; and 3) lowest possible cost per mile. The three big advantages that add up to sure savings.

Not just *nylon*, but Lee Super-Tensile Nylon, goes into the construction of these tires. This tough cord provides the ultimate protection against the impact bruises, blowouts and moisture damage that take their toll of tires built with ordinary cord. And, during the Lee Super-Tensile manufacturing process, the cord is also treated with Double-Dip Flexlok, the super-adhesive that reduces the effects of heat and flexing and makes cord separation from the bond virtually impossible.

You get additional assurance of extra mileage with the wide, flat tread—made of the best type of smoked sheet natural rubber. Other Lee improvements in the tread design result in better traction and cooler running.

Equip your units with Lee Super DeLuxe Highway Nylons —tubed or tubeless—for more mileage and more recaps!

The Lee Super DeLuxe Highway. Whatever your truck tire needs, there's a Lee that's *right* for the job.

Lee Rubber & Tire Corporation
Conshohocken, Pa.

Please send me your free catalog showing Lee of Conshohocken's entire line of truck tires.

Name _____

Company _____

Address _____

City _____ Zone _____ State _____

**LEE RUBBER & TIRE CORPORATION** LEE TIRES **CONSHOHOCKEN, PA.**

# BUTYL TUBES GIVE TROUBLE-FREE MILEAGE!

Nothing retains air better than Butyl inner tubes. And that's important in tire mileage—because excessive air loss causes rapid tire wear. Butyl tubes should be in every tire in your fleet . . . this also includes tubeless tires that may resist repairs.

And when it's time to recap, it's time for the extra protection only a Butyl tube can give you. Remember, Butyl tubes give trouble-free mileage!

ENJAY® BUTYL

*Pioneer in Petrochemicals*

**ENJAY COMPANY, INC.,** 15 West 51st Street, New York 19, N. Y.

*Akron • Boston • Charlotte • Chicago • Detroit • Los Angeles • New Orleans • Tulsa*

# Biggest Line And Best Deal In Truck Bodies!

*Get immediate delivery on any one of these three new, low-cost Fruehauf Truck Bodies!*

**New**

**"Cube□King" Steel and "Cargo★Star" Aluminum Units . . . each with a choice of hundreds of optional features**

**New**

**16′ "WorkSaver" Beverage Body with Sliding Doors . . . also 14′5″ units, with 100% load accessibility**

AVOID WAITING for body delivery and save useless "shopping" time by going *first* to the manufacturer of the broadest line of truck bodies—all ready for immediate mounting and delivery.

Fruehauf's full line of bodies includes three completely new, rugged units at the lowest prices quoted anywhere on dependable, quality equipment. You have a complete selection of closed or open top smooth panel steel bodies with straight-frames or wheel-housings, aluminum units in many lengths with beaded or smooth panel or exterior post design, and sliding-panel steel beverage bodies. Optional features, such as rear and side doors, accessories and fittings, are practically countless.

The rugged new steel "Cube□King" provides such profitable hauling features as a 7′ standard inside height, *kiln-dried* hardwood floors, and durable *welded* panel construction. Aluminum "Cargo☆Stars" have new, heavy-duty rear corner posts, steel or aluminum crossmembers, and many other revolutionary features.

Call your Fruehauf Branch for added facts!

**FRUEHAUF TRUCK BODIES**

**FRUEHAUF TRAILER COMPANY**
*Truck Body Division*
10952 Harper Avenue • Detroit 32, Michigan

**SEND FULL FACTS, WITHOUT OBLIGATION, ON UNITS CHECKED:**

☐ Cube□King ☐ Cargo★Star ☐ WorkSaver

NAME _____
COMPANY _____
ADDRESS _____
CITY _____ STATE _____

# How 3 National Fleets Cut Towing Costs with

# WATSON Towmaster

## DETACHABLE TRUCK RETRIEVER CRANE

1. **UNITED PARCEL SERVICE** (San Francisco) saved $800.00 in towing costs in just 3 months with a single WATSON TOWMASTER—the truck retriever that fits on any tractor fifth wheel to make a fast, efficient 1-man wrecker crane and retriever.

2. **BARRETT U-DRIVE** (Part of National Truck Leasing System) saved $2,400 in towing costs within less than a year with their TOWMASTER at San Francisco. Lessor of more than 900 vehicles in Northern California, they use their TOWMASTER to retrieve busses, vans, tractors and taxis.

3. **RYDER TRUCK RENTAL** uses TOWMASTERS to exchange trucks and tractors in many of their 35 locations throughout the Southeastern U.S.—as well as for retrieving disabled rigs. One driver with a TOWMASTER-equipped tractor can exchange two units at a time at 50% saving in driver cost. Or in case of breakdown of a customer's truck, he can haul out a replacement and retrieve the disabled unit. No need to keep a costly special wrecker on standby, or hire expensive towing services!

**TOWMASTER Truck Towing Cranes can be attached to or removed from any tractor fifth wheel in 10 minutes or less. "Lift-off" winch makes it an easy one-man job. Has plenty of capacity for all highway breakdowns and most wrecks, too—even 3-axle rigs. Costs less than $600.00—why pay more? Write for free catalog today. Please address Dept. D-11.**

WATSON

**H. S. WATSON COMPANY**

1316-67th ST., EMERYVILLE 8, CALIF.
1606 LASKEY ROAD, TOLEDO 12, OHIO


# CCJ AT YOUR SERVICE

Continued from Page 12

cylinder with a force of 50 lb or more will result in deflection of the piston stop. Since this results in excess pedal travel before braking effort is felt, this should be avoided.

Remember when it's necessary to disassemble a master cylinder, the push rod cannot be removed from the piston. These parts along with piston stop and boot retainer are removed from the cylinder as an assembly and serviced as such.

This new type master cylinder is not interchangeable with the old type. The old type still requires installing a pedal return spring along with adjustable push rod and nut.

### Reefer Drive Service Clinics

HYDRAULIC refrigeration drive training clinics are being conducted around the country by Sunstrand Hydraulic Division, Rockford, Ill. They cover operation, components, applications, installation, troubleshooting, field service, and periodic inspections. Session takes a day or a day and a half depending on the attendance.

Schedule for the coming sessions is Tampa, Fla., Hillsboro Hotel, Dec. 11; Dallas, Texas, Hotel Adolphus, Jan. 15, 1959; Los Angeles, Cal., Biltmore Hotel, Feb. 11; San Francisco, Cal., St. Francis Hotel, Feb. 19; New York City, Park Sheraton Hotel, Mar. 11. Clinics have already been held in Boston, Mass., and Kansas City, Mo.

### PM for Welding Safety

WELDING with leaky or porous oxygen and acetylene hoses creates a safety hazard. Costs also are increased by oxygen and acetylene escaping from hoses in this condition.

Hoses and connections should be inspected once a week for leaks, cuts, worn spots or loose connections. One of the best ways to find leaks quickly is to use a clean paint brush, cloth and bucket of soapy water. Use a grease-free soap such as Ivory.

Repair leaks and nipple connections by cutting off hose and remaking connections with hose clamp in place of the ferrule. Repair other leaks by cutting out worn sections and inserting a hose coupling as a splice. Never use friction tape for repairs.

(TURN TO PAGE 20, PLEASE)

**PICK ANY VEHICLE...ON THE ROAD–OFF THE ROAD**

# *Molysulfide* T.M. GREASE

## means full protection for the entire lube interval

Any good chassis grease that you use will do its job far better with Molysulfide added—whether for bushings, ball joints, fifth wheels, shackle bolts, king pins or other important bearing surfaces.

**For good reasons—**

Every oscillation between bearing surfaces *wipes away* grease. Every impact of shock load *splatters out* grease. Thousands of times between every grease job such action breaks the lubricant film, permitting metal-to-metal contact. Moreover, splashing roadway water washes away grease, permits metal-to-metal contact. These harsh contacts wear and damage bearing surfaces.

But Molysulfide, added to the chassis grease, bonds to the metal . . . prevents metal-to-metal contact . . . remains to lubricate and protect until grease is restored.

Nothing else equals the protection of a quality base grease with Molysulfide additive. You can *increase* equipment life and *decrease* costly off-the-road time.

**Make your own road test—**

Your name on your letterhead brings a *free* sample of Molysulfide heavy-duty chassis grease. Address: Climax Molybdenum Company, a Division of American Metal Climax, Inc., Department 70, 500 Fifth Avenue, New York 36, N. Y.

**These torsion suspension bushings prove the point:** Heavy-duty trailer bushing at left was lubricated with a grease containing Molysulfide—is still in top condition after 135,000 miles. Bushing at right, lubricated without Molysulfide, had to be replaced after 35,000 miles.

## CLIMAX MOLYBDENUM

**Heavy-duty chassis lubricants containing Molysulfide are now available nationally. Order from any of these well-known manufacturers** • The Alpha Molykote Corp. • Arkansas Fuel Oil Corp. • Bel-Ray Co. • Bemol, Inc. • Cities Service Oil Co. • Fiske Bros. Refining Co. General Petroleum Corp. • Gulf Oil Corp. • Jesco Lubricants, Inc. • Jet-Lube, Inc. • Magnolia Petroleum Co. • McCollister Grease & Oil Corp. • McGee Chemical Co. • MFA Oil Co. • Micro-Plate Lubricants Co. • Midwest Oil Co. • Orange State Oil Co. • Ore-Lube Co. • Panther Oil & Grease Mfg. Co. • Pate Oil Co. Schaeffer Mfg. Co. • Sinclair Refining Co. • Socony Mobil Oil Co. • Standard Oil Co. (Indiana) • Standard Oil Co. (Kentucky) • The Texas Co. • Tower Oil Co.

Look for this nearby Goodyear dealer sign for better tire values—better tire care.

GOODYEAR TIRES

# "We made it with

Hi-Miler – T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

**Buy and Specify Tubeless or Tube-Type**

SILVER 25TH ANNIVERSARY

# GOODYEAR

**MORE TONS ARE HAULED ON**

# flowers when all but the plows were down!

## *We get best traction and triple original tread mileage with new HI-MILER CROSS-RIB!"*

**How Tony Alvarez, Fort Myers, Fla., licked perishable cargo problems while cutting tire-cost-per-mile:**

"If you want to lie awake nights, try hauling flowers in winter!

"It's 1,500 miles and more from Florida to New York, Buffalo, Toronto, Detroit or Minneapolis—and you're risking 6- to 7-thousand dollars with every load.

"Our 12 reefer-sleepers shuttle on tight schedules between tropic heat and sub-zero blizzards," continues Fleet Owner Tony Alvarez, "and a truck down or badly delayed can ruin an entire shipment of valuable flowers.

"So we've always needed the most dependable tires and we've got them—Goodyear's new HI-MILER CROSS-RIB! What tires!

*"Our first set—all on drive-wheels—has gone 170,000 miles to date and there's plenty of miles of nonskid depth still on them!*

"That's practically TRIPLING original mileage on our operation—and *all* our Cross-Ribs are setting new tread-mileage standards.

*"And not one Cross-Rib road delay or failure!*

"We get through, too, where others don't—like in the Buffalo area blizzard last winter. It was 12° below—snow banked so high our drivers could touch it from their cabs—but we didn't lose a single load—or miss a single delivery!

"You can bet we're going Cross-Rib, whole-hog—and specifying Cross-Rib on all new power units!"

For more HI-MILER CROSS-RIB true case histories, contact your Goodyear dealer—or Goodyear, Truck Tire Dept., Akron 16, Ohio.

**HI-MILER CROSS-RIB**
**EXTRA RUBBER *plus* TRIPLE-TOUGH**

**3-T**
**NYLON CORD**

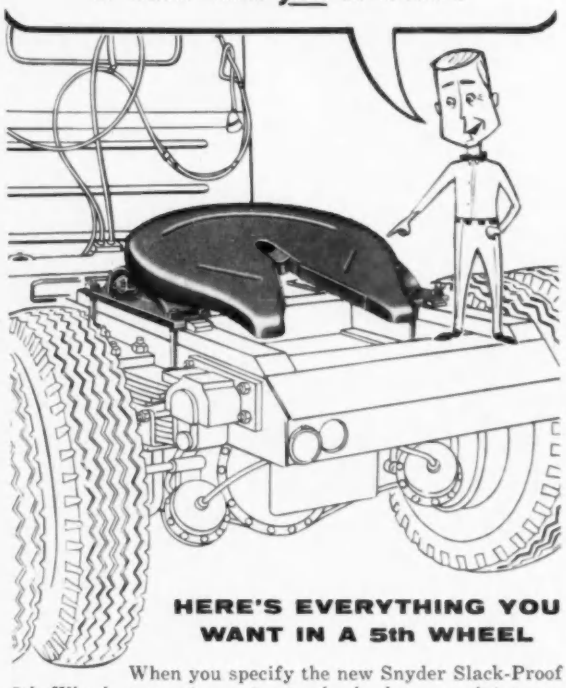
**TEMPERED LIKE STEEL!**
Like steel, tire cord must be tempered to be tough. Goodyear's exclusive 3-T process, involving Tension, Temperature and Time, triple-tempers cord to make it TRIPLE-TOUGH—to give you longest tire life, lowest cost-per-mile!

Watch "Goodyear Theater" on TV—every other Monday evening

# TRUCK TIRES

**GOODYEAR TRUCK TIRES THAN ON ANY OTHER KIND**

## Snyder's new Slack-Proof 5th Wheel is built with you in mind!



**HERE'S EVERYTHING YOU WANT IN A 5th WHEEL**

When you specify the new Snyder Slack-Proof 5th Wheel, you get greater payloads, lower maintenance costs and safer, surer operation — plus these exclusive features:

- No slack around king pin.
- 90% circumference grip around king pin.
- Easy semiautomatic, hitch and unhitch.
- Easy lubrication with three alemite fittings.
- Safe, positive, double-safety locking.
- Simple mounting with any conventional method.
- Rigid trunnions that resist lateral and side movement.
- Total weight of only 250 pounds.

Thorough research, extensive testing, and the proof of actual usage stand behind every Snyder Slack-Proof 5th Wheel. If you'd like to find out more about this exciting new 5th Wheel, just fill out and send us the coupon below. We'll send you without cost or obligation the new Snyder Slack-Proof 5th Wheel catalog. It describes in detail all the unique features of this new 5th Wheel, and provides you with a complete parts list and dimensional drawings.

*For safety, satisfaction and service, be sure to:*

ALWAYS SPECIFY **SNYDER**

**SNYDER TANK CORPORATION**

**P. O. BOX 14, BUFFALO 5, N. Y.**
**P. O. BOX 3068, BIRMINGHAM 1, ALABAMA**

SNYDER TANK CORPORATION
Dept. 13, P. O. Box 14, Buffalo 5, N. Y.

Please send me free copy of New Slack-Proof 5th Wheel Catalog.

Snyder SLACK-PROOF 5th WHEEL

NAME _____
COMPANY NAME _____
STREET _____
CITY _____ ZONE _____ STATE _____


# CCJ AT YOUR SERVICE

Continued from Page 16

### Red Ram Rocker Arms

DODGE "Red Ram" engine for '59 uses two types of rocker arms—adjustable and solid. Both use hydraulic lifters. No adjustment is provided for the solid type rocker arm. On the adjustable rocker arms, the adjustment screws are preset and should never need to be adjusted. However, should the screws happen to be disturbed, the adjustment can be reset with the following procedure, says a Dodge service bulletin.

For less than 2500 miles starting with No. 1 cylinder on top dead center compression, back off the adjusting screw until a 0.001-in. feeler gage will pass with a slight drag between the rocker arm screw and valve stem. Now remove the feeler gage and turn the adjusting screw down exactly 2 to 2½ turns. This will give the correct positioning.

Rotate the engine on quarter turn in normal direction of rotation. Then repeat the above steps on cylinder No. 8. Continue rotating engine one quarter turn at a time and adjust the valves according to the firing order. (1-8-4-3-6-5-7-2.)

For tappets with greater than 2500 miles service, varnish deposit may prevent full tappet extension. Adjust rocker arm screws so there is ⅛-in. clearance between underside of screw head and top face of rocker arm bolts.

(TURN TO PAGE 24, PLEASE)

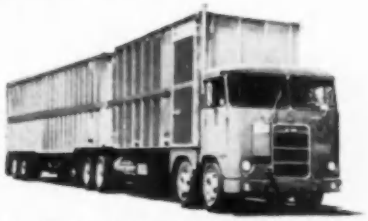
**"—and with th' cleanin' of the 'Bayou Specials' coolin' system I ask—ANYONE FOR CRAYFISH TAILS?"**

# Today's heavier traffic and faster speeds are tough on light truck brake linings!

Block after block—stop after stop—truck operation today gives brake lining the worst kind of beating. Now more than ever you *need* better braking—you *want* longer lining life. Grey-Rock Balanced Trucksets, for light and medium trucks, give both!

For faster stops, good pedal feel, minimum fade, and longer lining life, Grey-Rock combines different lining types—both woven and molded—into combination sets specially balanced for each make and model.

For real economy in faster, heavier traffic, Grey-Rock Balanced Trucksets and Balanced Brake Blocks are the best linings you can buy! Ask your jobber about them now.



**Grey-Rock "TIMBER KING" Molded-Woven Blocks for Heavy Jobs—Tough Service**

The secret of "Timber King" is a woven block used with the right molded block. A special weave provides slight compressibility, assures full lining-to-drum contact—eliminates localized high temperatures. Zinc alloy wire helps eliminate fade, helps "condition" drums. Result: better braking, longer wear, and fewer broken drums.

*Only* **Grey-Rock** *makes*

**BALANCED BRAKSET LININGS**

**BALANCED BRAKSETS • TRUCKSETS • BRAKE BLOCKS • VEE-LOK® CLUTCH FACINGS**

**GREY-ROCK DIVISION of Raybestos-Manhattan, Inc., Manheim, Pa.**

RAYBESTOS-MANHATTAN, INC., Brake Linings • Brake Blocks • Clutch Facings • Industrial Rubber • Mechanical Packings Asbestos Textiles • Engineered Plastics • Sintered Metal Products • Rubber Covered Equipment • Laundry Pads and Covers Abrasive and Diamond Wheels • Industrial Adhesives • Bowling Balls

# "REAL PREVENTIVE MAINTENANCE MUST INCLUDE NEW OIL SEALS!"

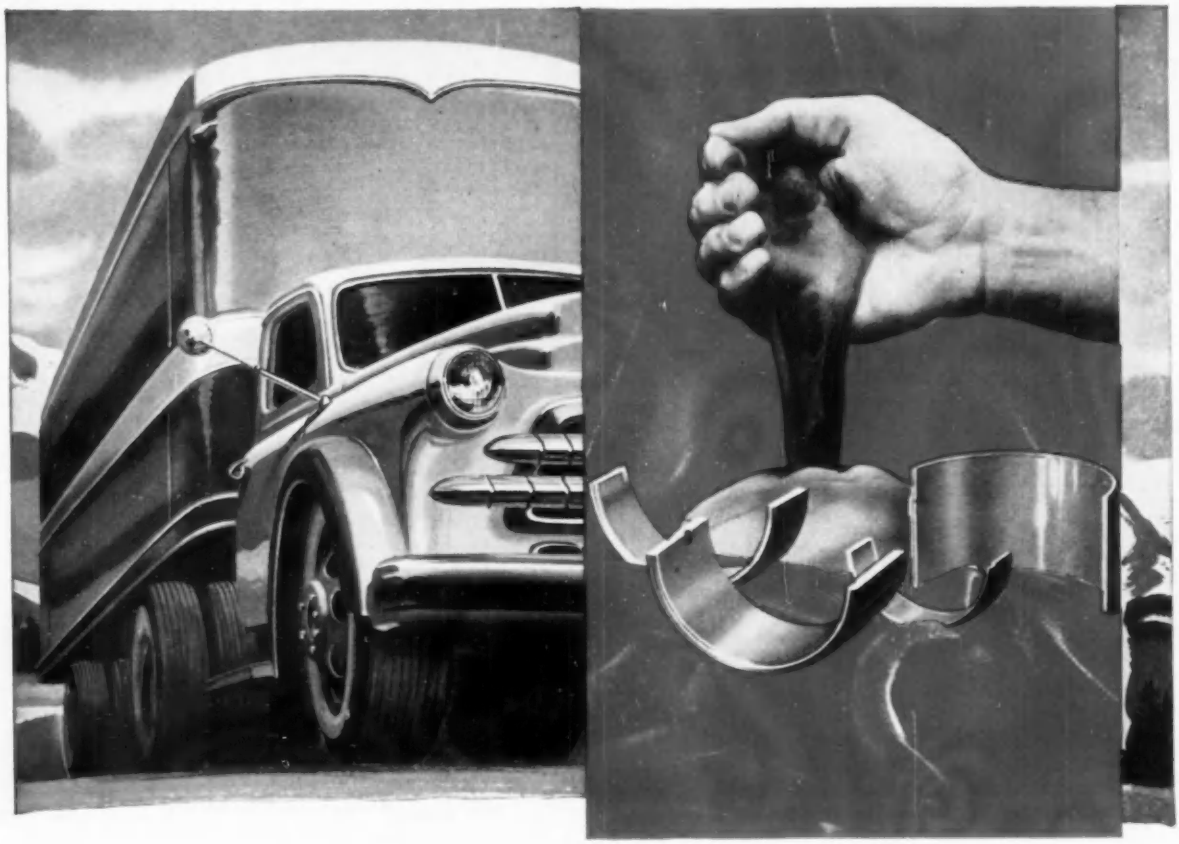
"Re-installing a used or worn oil seal can cause a breakdown, brake or bearing failure, even an accident.

"We learned long ago to install new oil seals on every repair job, and at all preventive maintenance inspections."

Do as America's leading fleets do. Call your parts supplier today about a National Seal stock tailored to your fleet!

**FEDERAL-MOGUL SERVICE**
Division of Federal-Mogul-Bower Bearings, Inc.
Detroit 13, Michigan

NATIONAL OIL SEALS



# You get finer heavy-duty performance with Fm copper alloy bearings!

Years of research created the copper-lead powder which builds long, trouble-free mileage into these heavy-duty bearings. We start with a low-carbon steel back for workability, bonding and strength. We add the pure copper-lead lining of sintered metal powder for heavy duty. Then comes the brass barrier adding stability to the bearing lining material. It is followed by a lead-tin overplate for smooth "break in", and finally, a pure tin flash plating for corrosion resistance. All together they mean uniformly high quality road performance in fleet operation—and you can get Fm copper alloy bearings *fast* from your Federal-Mogul Jobber!

BEARING FEDERAL Mogul SERVICE

FEDERAL-MOGUL SERVICE
Division of Federal-Mogul-Bower Bearings, Inc.

# CCJ AT YOUR SERVICE

Continued from Page 20

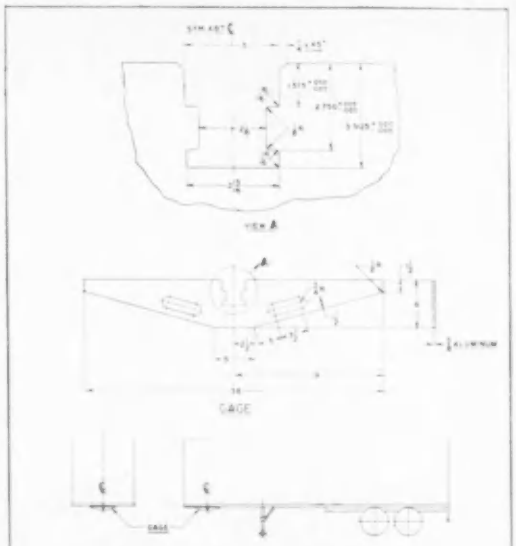
### Temporary Light Reflector

SOMETIMES YOU need a lot of light in a tight corner and the drop light reflector is just too dirty to help. Until you can clean it off and repaint it (with aluminum paint or high gloss white enamel), line it with aluminum foil—shiny side out. It'll work well as a temporary fix.

### Trailer King Pin Gage

A TRAILER KING PIN gage has been developed by K. W. Tantlinger, vice president-engineering, Fruehauf Trailer Co., for the Truck-Trailer Manufacturers Assn., sponsor of the project.

Gage is for ready checking of king pin dimensions, particularly to see if the pin is worn, bent or otherwise dangerous to continue in use. Gage is not intended for checking king pin diameters, but rather for checking length of the pin below the skid plate and the angle of pin as well as to determine any oversize or wear which may interfere with proper operation of the pin in trailer interchange service.

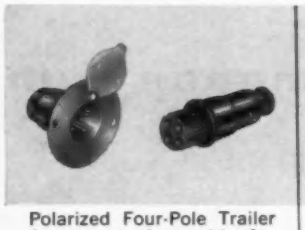



CHECK KING PIN AND APRON PLATE ON LONGITUDINAL AND TRANSVERSE CENTER-LINES. PLACE TOP OF GAGE IN CONTACT WITH APRON PLATE AND SLIDE OVER THE KING PIN. IF THE KING PIN WILL NOT PASS THROUGH THE KING PIN SLOT, WITH THE TOP OF THE GAGE IN CONTACT WITH THE APRON PLATE, IT DOES NOT CONFORM TO S.A.E. STANDARD.
THIS GAGE IS NOT FOR CHECKING KING PIN DIAMETERS.

TTMA KING PIN AND APRON PLATE GAGE

Use the blueprint shown here to make your own gage.

(TURN TO PAGE 28, PLEASE)

Polarized Four-Pole Trailer Connector Assembly for Passenger Cars.

Underwriters' Laboratory Approved Toggle Switches With or Without Wire Leads.

Complete Electrical Control Switch Panel for Electric Starting Requirements.

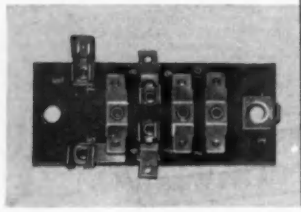
Moisture and Dustproof Momentary Starter or Choke Switch.

COLE-HERSEE

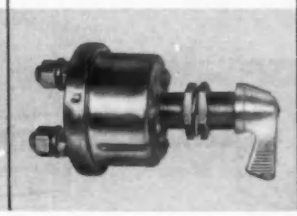
COLE-HERSEE CO.
Over 40 Years of Consistently Better Products
20 OLD COLONY AVENUE, BOSTON 27, MASS.

Quality AUTOMOTIVE and TRUCK ELECTRICAL PRODUCTS

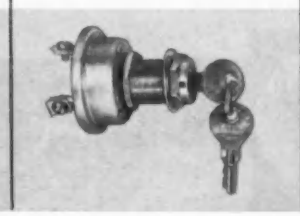
Terminal and Fuse Blocks With Fast Slip-On Type Terminals.



Battery Master Disconnect Switches. Single and Double-Pole Versions.



Combination Ignition Starter Switches With Coded Tumbler Lock and Keys.



Pilot Lamps — Gasketed, Waterproof With Clear or Red Faceted Lenses. Single or Double Contact. 6, 12 or 28 volts.

Duff Truck Line specified the new 7-speed R-35 ROADRANGERS in five F 22 RT Reo Tractors with Reo OH-160 LPG Gold Comet engines, a 6.83:1 axle ratio, with 10.00 x 20 tires.

# *Geared by FULLER...*

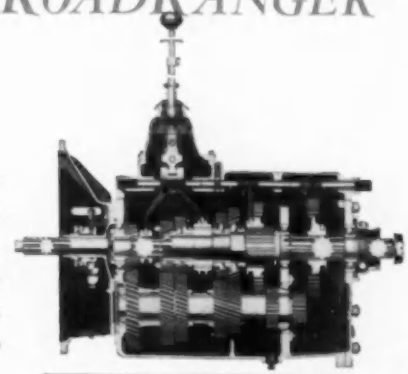
## *"We specified the 7-speed R-35 ROADRANGER™ ...and we like it!!!"*

Duff Truck Line, Inc.'s new Reo tractors with the new 7-speed R-35 ROADRANGERS are "running with the bigger rigs," according to Mr. Herbert D. Keifer, Maintenance Supervisor.

Mr. Keifer continues. "We specified the R-35 in five new Reo F 22 RT tractors because we wanted 7 forward speeds with close steps between ratios, shifted with one gear shift lever.

"This new ROADRANGER equipped Reo can handle the same load on the same time schedule as other tractors with engines of greater piston displacement and horsepower. We keep our engine rpm up and the driver can select the ratio he wants according to load, road and engine rpm."

See your truck dealer. Ask him for full details on Fuller semi-automatic ROADRANGER Transmissions for your new trucks and tractors.



**FULLER**

**TRANSMISSIONS**

FULLER MANUFACTURING CO. Transmission Division • Kalamazoo, Mich. Subsidiary, Eaton Manufacturing Company

Unit Drop Forge Div., Milwaukee 1, Wis. • Shuler Axle Co., Louisville, Ky. (Subsidiary) • Sales & Service, All Products, West. Dist. Branch, Oakland 6, Cal. and Southwest Dist. Office, Tulsa 3, Okla.

# Lipe DIRECT PRESSURE CLUTCH

Vital component in today's most economical system of power transmission, the Lipe DPB Heavy-Duty Clutch costs less by itself . . . materially reduces the sales price of the truck . . . and affords substantial savings in over-all truck-operating costs per mile.

Other elements of the power-train contribute to these savings, but the Lipe DPB Heavy-Duty Clutch absorbs the greatest shocks and fiercest friction, dissipates the most heat, and by its simplicity, direct drive, easy adjustment and replacement-exchange, keeps the vehicle rolling with less cost for fuel, brake relining, oil replenishment and repair. Its worth in highway safety and preventative brake maintenance alone places it far in advance of costlier and more complicated drive components.

Advanced thermodynamic design and positive air circulation add up to a heavy-duty clutch of uncomplicated design with few moving parts. In short, it's a clutch with a low maintenance cost that matches both its low first cost and greatly lower truck-mile costs of operation.

● Now available in 12", 13", 14", 15" single plate and two-plate models. Write for complete information.

Lipe-ROLLWAY CORPORATION
SYRACUSE 1, N. Y.

MANUFACTURERS OF AUTOMOTIVE CLUTCHES AND MACHINE TOOLS

**THERE'S NO BETTER BRAKE FLUID FOR ANY CAR THAN THE ONE THAT GOES INTO ALL NEW GM CARS!**

EXCEEDS NEW S.A.E. SPECIFICATION 70R3

Again, for 1959 as for the past ten years, Delco Super 11 Heavy Duty brake fluid is original equipment on all new General Motors cars! With this ready-made market, it surely pays to stock Delco Super 11 for replacement use.

Your other customers—both passenger and commercial—will want it, too, because it is the brake fluid that's specially designed to give the extra braking protection needed for today's high speeds and heavy traffic conditions.

Improved with HTD, Delco Super 11 exceeds SAE 70R3. Delco Super 11 Extra Heavy Duty brake fluid is readily available everywhere through the United Motors System and General Motors car and truck dealers.

**DELCO SUPER 11 EXTRA HEAVY DUTY** • Is compatible with all rubber and metal parts! • Is chemically inert and physically stable! • **GIVES MORE SAFE STOPS FOR CUSTOMERS, MORE SALES FOR YOU!**

**Moraine Products**

Division of General Motors, Dayton, Ohio

## CCJ AT YOUR SERVICE

Continued from Page 24

### Quick Polarity Check

LATE MODEL cars and trucks use a negative ground system. Older models are wired the other way around. Here's how to check polarity in case of doubt:

Before starting the engine, connect a voltmeter from the regulator "B" terminal to ground. On negative ground systems, ground voltmeter to the negative lead. The voltmeter needle will swing upscale if polarity is OK.

Regardless of vehicle's system, the secondary ignition system should supply negative voltage to spark plug terminals. This reduces the amount of voltage required by the plugs, can give the ignition system up to ⅓ more reserve. To check secondary ignition polarity, ground the positive lead and then—with the engine running—momentarily touch the spark plug with the negative lead. An upscale reading indicates negative current flow to the spark plugs. If the needle moves down-scale, reverse the coil leads.

### Prevent Timing Light Damage

MANY TIMING marks are now located on the front pulley so the timing light must be held close to the fan. This can be dangerous and costly if the fan blades hit the light. To prevent this damage, take a 10-in. piece of radiator hose and slip it over the end of the timing light. This acts as an extension for the flash and as protection for fingers and tools. With this extension, you can see the timing marks better since you can hold the light much closer to the pulley.

### Check '58 Olds Ignition

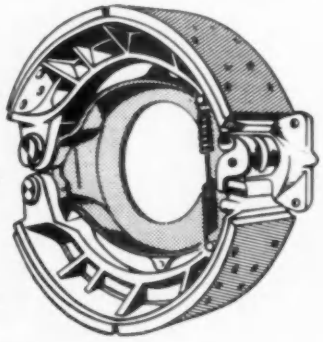
TO OBTAIN top-notch performance and economy from the 1958 Olds engine, correct ignition timing is important. To set timing:

Unscrew vacuum line at distributor and seal the flared opening with friction tape to avoid vacuum leak. Start the engine and adjust engine speed to 850 rpm. Attach timing light and set timing 5 deg before TDC. This is the first slot in the balancer to index with pointer in direction of rotation. The second slot is TDC. If detonation is noticed after this setting, retard timing to 2½ deg before TDC. This is mid-way between the first and second slot. Pull off tape, hook up vacuum line and reset engine idle speed.


A REPUTATION FOR

DEPENDABILITY

— EARNED BY EXPERIENCE



**"Save the tough jobs for Scandinavia"** is more than a claim. Scandinavia ZT-Molded Combination Sets have earned their reputation in the heavy-duty field. The die-pressed ZT segments have a polishing effect on brake drums which is reflected in a definite reduction of heat-checking and fading. The specially compounded molded segments, combined with ZT, result in dependable braking and long life — even in extra-heavy-duty service.

BRAKE BLOCKS — SCANDINAVIA — BRAKE LININGS

**DIVISION OF SCANDINAVIA BELTING CO.** 744 Broad St., (P.O. Box 464) Newark 1, N. J.
**Warehouse:** 250 Central Ave., Newark 1, N. J. ★ **Plant:** Charlotte 1, N. C.
**Branches** in Cambridge, Mass., Indianapolis, Indiana and Cleveland, Ohio

# Eaton Valves are Solving Problems Like These—

1. Broken valve due to overstressing.

2. Corrosion and cracking of the valve face caused by leakage.

3. Corrosion of the valve face due to sticking caused by stem and guide deposits.

4. Actual melting of valve material due to extremely high temperatures caused by preignition.

If you are having valve troubles, why not discuss them with Eaton Valve Division engineers. They will be glad to work with you in diagnosing the causes of failure, and in developing valves to meet the particular requirements of your engines and the kind of operation in which they are used. In hundreds of cases, Eaton engineers have been successful in suggesting measures which have corrected the most stubborn valve train problems. A study of your problem with complete technical report involves no obligation. Write, wire, or phone.

SODIUM-COOLED VALVES
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SUPER-ALLOY VALVES
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FREE-VALVES
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FLEXIBLE VALVES
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ALUMINIZED-HEAD VALVES

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**EATON** VALVE DIVISION
MANUFACTURING COMPANY
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ENGINEER'S FIELD REPORT

PRODUCT **RPM DELO SPECIAL OIL**

FIRM **Cobb Livestock Transportation**
**Toppenish, Washington**

# Same main bearings after 412,000 miles on RPM DELO

**Fleet owner C. Leonard Cobb** watches Pete Sander complete routine maintenance on Cummins engine of 1950 Mack truck. RPM DELO Special protects it so well original main bearings are still in use after more than 412,000 miles. Fleet currently is averaging 250,000 miles between major overhauls. Says Mr. Cobb, "We've used RPM DELO Special since 1946. It keeps our engines cleaner than the oil we used before, and they need fewer repairs." Present fleet consists of 9 Macks.

**Using RPM DELO Special Oil,** each truck and trailer rig in Cobb fleet puts on an average of 80,000 miles per year with loads ranging as high as 72,000 lbs. Firm hauls livestock to all parts of Washington, Oregon, Idaho and California.

**New looking truck** loading at Toppenish Sales Yard (above) is actually 1953 Mack—shows firm's close attention to all phases of maintenance. Mechanic Pete Sander (top photo) re-reports, "RPM DELO Special makes my job a lot easier. There's never any sludge or gum in our engines, never any problem with bearing corrosion. Our trucks go at least 100,000 miles before even minor overhauls."

LUBRICATING OILS RPM DELO

TRADEMARK "RPM DELO" AND CHEVRON DESIGN REG. U.S. PAT. OFF.

**STANDARD OIL COMPANY OF CALIFORNIA,** San Francisco 20
**THE CALIFORNIA OIL COMPANY,** Perth Amboy, New Jersey

## Why RPM DELO Special Oil reduces wear—prolongs engine life

- Oil stays on engine parts—hot or cold, running or idle
- Anti-oxidant resists lacquer formation
- Detergent keeps parts clean
- Special compounds prevent corrosion of bearing metals
- Inhibitor resists crankcase foaming

**For More Information** on this or other petroleum products, or the name of your nearest distributor, write or call any of the companies listed below.

**STANDARD OIL COMPANY OF TEXAS,** El Paso
**THE CALIFORNIA COMPANY,** Denver 1, Colorado

# Productivity and profits up with BOSTROM LEVEL RIDE 80 seats

Undoubtedly your labor costs are near the national average of 54.2% of your gross operating dollar. At least, labor requires the biggest chunk.

*What* can you do about this expense? If you cannot cut, can you get more out of it? The answer is *yes*. Simply increase driver *productivity*. Thus you cut costs . . . and *increase profits*.

*How?* By "human engineering"—making the driver's job easier, more efficient . . . keeping drivers on the road more steadily, with fewer or shorter stops . . . holding to schedules . . . decreasing hazards and costs of delays or accidents . . . giving drivers more respect for their jobs and equipment, with less equipment abuse as a result.

These are the benefits of Bostrom "Level-Ride" 80 seats—the "human-engineered" suspension seat that removes wear and tear on the driver, making him more efficient and productive. "Level-Ride" 80 seats take away 80% of the road shocks and vibration, providing a 5-times-better ride. Giant rubber torsion springs in the seat suspension system soak up shock *under* the seat instead of *in* the driver's body. Over 135,000 Bostrom suspension seats in use prove their value.

You can obtain "Level-Ride" 80 seats on every make of new truck. There's a "Level-Ride" 80 also available to fit your present trucks—for replacement *now*. See your truck dealer or Bostrom parts jobber.

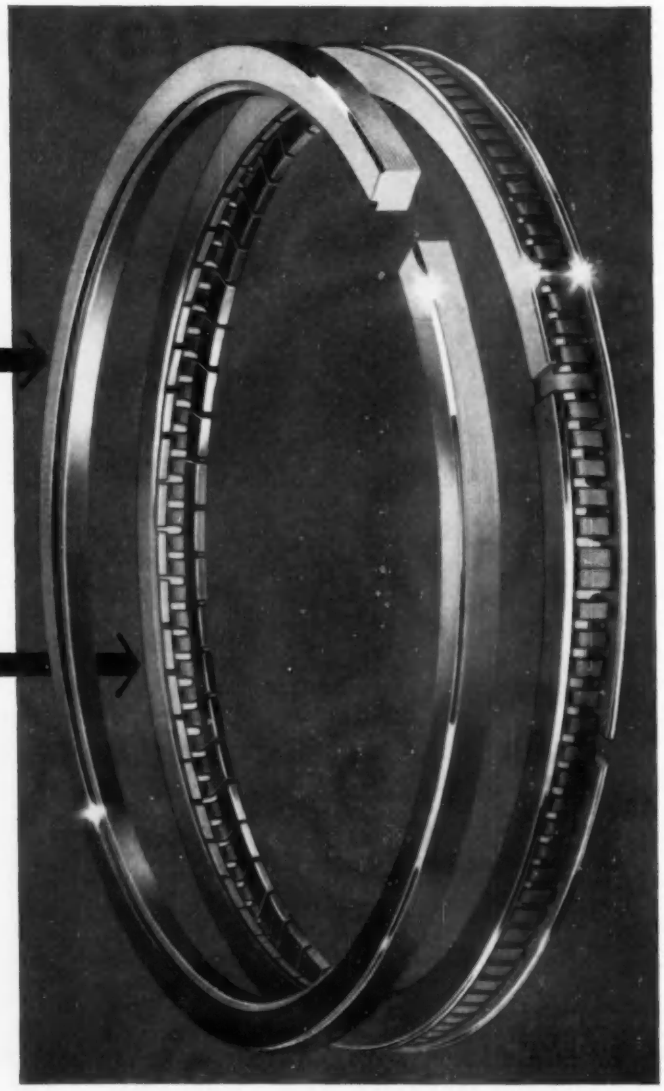
**Want a demonstration?**
**Write and we'll arrange one for you.**

BOSTROM®

**BOSTROM CORPORATION**
**133 West Oregon Street, Milwaukee 4, Wisconsin**

# Why 2-in-1 chrome rings mean double life for pistons, cylinders, rings!

**Perfect Circle engineering and research make possible 2-in-1 sets tailored for top performance in each make and model engine**



**TOP CHROME COMPRESSION RING**

is specially designed to perform where pressures are greatest, heat highest, lubrication poorest. Special factory pre-seated face finish assures immediate seating to eliminate tedious and costly break-in. For top performance, characteristics are modified depending on make and model of engine.

**TYPE "98" CHROME OIL RING**

is designed to provide positive oil control for today's high compression engines. Self expanding spacer assures uniform pressure against cylinder wall, plus side-sealing action on ring groove. Some 2-in-1 sets contain the famous Chrome Oil Stopper oil ring, others the "98" oil ring, depending on make and model of engine.

**INSURE SATISFACTORY PERFORMANCE**

On every valve or ring job, install Perfect Circle Valve Seals. They stop a type of oil loss that even the best piston rings can not control.

**PERFECT CIRCLE**

PISTON RINGS AND POWER SERVICE PRODUCTS

Hagerstown, Indiana — Don Mills, Ontario, Canada

# UP FRONT WITH CCJ

## NOVEMBER 1958 FLEET HIGHLIGHTS AS REPORTED BY COMMERCIAL CAR JOURNAL

**MR. EXECUTIVE,** last month found truck and bus fleet brass traveling to such far-flung points as New Orleans, La., Baltimore, Md., Chicago or Boca Raton, Fla. Where they went depended on their interest. First of the big meetings . . .

**AMERICAN TRANSIT** Assn. met in New Orleans, Oct. 12-15. Local transit men heard New Haven Railroad President George Alpert describe their bus operations as "absolutely essential." He asked for government subsidies, said fare increases lead only to further diversion of traffic to private automobiles. Calling for greater retailer - transit cooperation, Buffalo, N. Y., department store operator H. M. Hecht cited figures to show that up to three out of four downtown store customers get there by public transportation. Said he, "In fact, downtown cannot survive on automobile trade alone." One surprising note comes from the maintenance sessions. Despite the success of some properties in doing "outside" maintenance for truck owners, there was considerable disillusionment expressed over what was expected to be a profitmaking venture.

**SAE TRANSPORTATION** and Diesel Engine meetings convened in Baltimore, Oct. 20-24. Better brakes and fiber glass-reinforced plastic cabs highlighted the transportation sessions. One such cab is a feature of White's new 5000 Series 48-in. BBC tractor to be announced Nov. 7. (For another 48-in. BBC tractor, see page 63, this issue.) Internal expanding and liquid-cooled disc brakes were described (details in Dec. issue). On the diesel side, reports on progress in basic research give indication of several coming improvements in diesel engine efficiency and versatility.

**SAFETY CONGRESS** sponsored by National Safety Council saw about 8000 safety men gather in Chicago, Oct. 20-24. Transit and Commercial Vehicle sessions attracted some 500 fleet safety experts. The well-rounded program brought forth many meaty discussions on the "why," "when" and "how" of fleet accident prevention. Among the speakers was Commercial Car Journal Editor Bart Rawson outlining highway-user association safety services.

**NAMBO**—as the National Assn. of Motorbus Operators is usually termed—brought intercity bus operators together in Boca Raton, Oct. 22-24. They heard National Highway Users Conference Director Arthur Butler describe the opportunities for boosting intercity bus operation in view of the recent prediction that by 1960 there may be no more rail passenger traffic. It is hoped, he said, bus operation will be encouraged . . . for example, "(by) the prompt elimination of the 10 per cent federal tax on passengers." NAMBO President Arthur Hill, in an earlier session, assured those present that both NAMBO and the Assn. of American Railroads would campaign in the coming session of Congress for repeal of the tax.

# DETROIT DISPATCH

**BENDIX-WESTINGHOUSE HAS** settled its court case against Brakes, Inc. B-W now has a court injunction forbidding Brakes, Inc. to manufacture brake diaphragms using B-W name and trademark. B-W has cleared the distributors involved (Mutual Truck Parts and Berg Mfg. & Sales), agrees that they had no knowledge that the parts involved were counterfeit.

**LIGHTER WEIGHT RADIATORS ARE** in the offing. They could cost less too. After five years of road tests, Alcoa says a combination aluminum-fin with brass tube heat exchanger unit for passenger cars weighs 20 per cent less than conventional units. Raw material cost of such a unit would be about 20 per cent less, says the company.

**CHRYSLER'S AGREEMENT TO** market vehicles made by Simca of France puts it into the diesel truck market. Simca offers 54 models ranging from a small 4-cyl ½-ton pick-up to 80,000-lb GVW diesel-powered jobs.

**TRUCK SCRAPPAGE LAST** year was third highest on record. High scrappage plus low retail sales last year and so far this year indicate trucks are being worked harder. Net result could be even more scrappage plus a boom in truck sales within the next year or two.

**GM DIESEL USERS CAN** get a directory of service outlets in the U. S. and Canada by writing Detroit Diesel Engine Division, General Motors Corp., Detroit 28, Mich.

**TRUCK PRICES FOR 1959** reflect an effort on the part of the makers to "hold the line." In fact, Dodge reports reduced prices on 21 basic models. In some cases moderate increases are offset by incorporating as standard equipment last year's options. Generally where they are encountered, increases are higher on heavier models. For example, Chevrolet ½-ton pick-up prices are up about $60 as compared to around $100 for 2½-ton models.

# WASHINGTON WATCH

**ICC IS** now digesting user comment on the extensive changes proposed to the Commission's Motor Carrier Safety Regulations . . . including a 123-page statement from ATA.

**AIR CONDITIONING** assembly mounted on or attached to a bus is not to be added in when figuring "actual unloaded weight" for purpose of computing federal weight tax, says Internal Revenue Service (Rev. Rul. 58-469).

**GASOLINE TAX REFUND** claims may be submitted quarterly to the federal government . . . if your gas tax liability is $1000 or more per quarter. New amendment to the law becomes effective Jan. 1, 1959. Local transit fleets and certain off-highway operators are affected.

**NEW FRUEHAUF TRAILER** Co. president is William E. Grace. He takes over from Roy Fruehauf who moves up to Chairman of the Board. Grace was executive vice president, came with Fruehauf when it acquired Hobbs Trailer Co. in 1955.

**FIRESTONE TIRE** & Rubber Co.'s support of the ATA Foundation enters its fifth year. You'll be seeing and hearing its trucking industry promotion as part of the "Voice of Firestone" television program.

**INTERCITY BUS** passengers are traveling longer distances, says ICC. It reports that average journey in 1943 on Class I intercity motor carriers was 47.7 miles as compared to 71.1 miles in 1956.

**THREE NEW DRIVER** booklets written for commercial driver supervisors were published late last month. They are based on special studies by Dr. Ross A. McFarland of the Harvard School of Public Health. One tells what to watch for as drivers grow older, another covers connection between what the driver eats and his driving ability, third covers problems of driver fatigue. For information on the new booklets, write National Assn. of Automotive Mutual Insurance Companies, c/o American Mutual Insurance Alliance, Bureau of Information, 20 North Wacker Dr., Chicago, Ill.

**WARRANTY CLAIMS ON** car and truck service are soaring fantastically. Vehicle makers are giving them a close look, may come up with a new method of handling repair claims. It's estimated that some $350 million (a record) will be paid out by makers this year in dealer claims. For truck users, makers are considering a pro-rata type adjustment warranty.

**GASOLINE ADDITIVE FROM** duPont provides an effective coating on metal surfaces containing copper, thus retards formation of gum and insoluble residues in the fuel. Its use in lubricating oil is being investigated to cut catalytic erosion of copper or copper-bearing alloys.

**AIR CONDITIONERS WILL** become as standard as heaters in cabs of over-the-road trucks during the next few years, says Sid Shapiro of Tenney Engineering Co. He cites safer driving and shorter road time due to reduced driver fatigue as big advantages.

**PIGGY-BACK SERVICE IS** offered by 43 railroads and they expect to move some half-million trailerloads this year, says Distribution Age magazine. New piggy-back guide shows 19 railroads offering Plan 1 service (movement of trailers for highway common carriers). 40 offer Plan 2 service (movement of rail-owned trailers) and 27 offer Plan 3 service (shipper-owned trailers). For a free copy of the new guide, write The Editor, Distribution Age, 56th & Chestnut Sts., Philadelphia 39, Pa.

**MECHANIC TRAINING GOT** a boost last month when National Education Assn., Automobile Manufacturers Assn. and ATA's Regular Route Common Carrier Conference discussed the problem middle of last month. Common Carriers say their objective is (1) to see what maintenance training programs are now offered high school students and (2) to work with educators to develop a standard program for high schools and trade schools throughout the country. NEA spokesman says schools lack information on opportunities for employment in the trucking industry.

## TRUCK TONNAGE

| Month | % Change from Previous Month | % Change from a Year Ago |
|---|---|---|
| August, 1958 | + 0.2 | − 6.8 |
| July, 1958 | − 2.4 | − 0.3 |
| 2nd Quarter '58 | .... | − 2.6 |
| June, 1958 | + 3.2 | + 5.3 |
| May, 1958 | + 2.6 | − 5.8 |
| April, 1958 | + 1.9 | − 5.4 |
| 1st Quarter '58 | .... | − 5.6 |
| March, 1958 | + 6.6 | − 7.6 |
| February, 1958 | − 8.5 | − 8.1 |
| January, 1958 | + 9.3 | − 5.3 |
| 4th Quarter '57 | .... | + 0.9 |
| December, 1957 | −10.2 | + 0.2 |
| November, 1957 | −14.4 | − 4.8 |
| October, 1957 | + 5.6 | + 0.2 |
| 3rd Quarter '57 | .... | + 6.5 |
| September, 1957 | − 3.6 | + 4.8 |

**GENERAL FREIGHT** truck tonnage dropped 6.8 per cent in August, 1958 as compared to August, 1957. Reason was, says ATA's Research Dept., the 11-state western truck strike and work stoppage begun Aug. 11. Pacific and Rocky Mountain regions were affected. Excluding these, decline was only 3.0 per cent. Tonnage for the first eight months of 1958 was off 4.1 per cent as compared to the first eight months of 1957. Three regions showed increases in August as compared to a year ago. . . . Mid-Western—up 4.9 per cent, Southern —up 2.9 and New England—up 2.7.

## TRUCK AND BUS PRODUCTION

| Make | Weeks Ending Oct. 11 | Weeks Ending Oct. 4 | Year to Date 1958 | Year to Date 1957 |
|---|---|---|---|---|
| Chevrolet | ..... | 4,263 | 198,473 | 267,282 |
| G. M. C. | ..... | 827 | 44,469 | 52,099 |
| Diamond T | 139 | 136 | 4,302 | 4,409 |
| Divco | 70 | 70 | 2,226 | 2,439 |
| Dodge and Fargo | 706 | 608 | 41,787 | 61,223 |
| Ford | 5,952 | 5,172 | 164,469 | 269,477 |
| F. W. D. | 31 | 33 | 986 | 896 |
| International | 1,855 | 1,965 | 72,006 | 96,857 |
| Mack | 262 | 26 | 11,233 | 13,846 |
| Studebaker | 216 | 183 | 7,516 | 10,826 |
| White | 418 | 400 | 12,952 | 15,208 |
| Willys | 2,128 | 1,947 | 67,275 | 58,906 |
| Other Trucks | 50 | 55 | 2,567 | 3,358 |
| Total—Trucks | 11,827 | 15,705 | 630,261 | 856,826 |
| Buses | 15 | 25 | 2,532 | 3,240 |
| Total—Trucks and Buses | 11,842 | 15,730 | 632,793 | 860,066 |

Source: Automobile Manufacturers Association.

## IN THIS ISSUE

You'll find the only **COMPLETE GUIDE** to the makers of the vehicles, components, parts and supplies you need to keep your fleet operation at peak efficiency. It's a **SERVICE THAT ONLY** Commercial Car Journal — backed by the tremendous resources of Chilton Company's Automotive Division — can bring you. Listings start on page 81

Also in this issue . . . .

You'll find the completely revised, annual **HIGHWAY USER ASSOCIATION DIRECTORY** . . . . page 115. And a special **WHO'S GOT WHAT YOU WANT** directory of products advertised in this issue . . . page 73

In addition . . . .

Details on new truck models from Ford, Studebaker, GMC, Montpelier, FWD . . . . new trailers from Trailmobile . . . . new fleet passenger cars from Ford, Chevrolet, Studebaker.

# The Road Ahead

**AMERICAN TRUCKING ASSNS.** annual convention opening in Miami Beach, Fla., on Nov. 16 celebrates the 25th anniversary of the Association. On hand for the birthday party—in addition to trucking industry leaders from all over the country—will be Senator Warren G. Magnuson, Senate Interstate Commerce Committee chairman, and Howard G. Freas, Interstate Commerce Commission chairman.

**NATIONAL TRUCK ROADEO** really starts the celebration. Registration for this event is on Nov. 13, with exams and semi-finals on Nov. 14, more semi-finals on Nov. 15 and the big event—the championship finals—scheduled to begin at 2:30 PM on Sunday, Nov. 16, in the Miami Beach Exhibition Hall.

**ATA'S VARIOUS** carrier conferences are scheduled to meet all day Monday, Nov. 17 and the morning of Nov. 18. Board of Governors of the Regular Route Common Carrier Conference will hold a three-day pre-convention session starting Thursday, Nov. 13. ATA Executive Committee meetings are slated for 1 PM, Sunday, Nov. 16, the afternoon of Nov. 18 (sub-committees), all day on Nov. 19.

**ATA BOARD OF DIRECTORS** meets first on Thursday morning, Nov. 20, concludes its meeting on Nov. 21. State Association managers had their annaul dinner Sunday, Nov. 16, meet for breakfast on Nov 20. ATA's Committee of 100 (public relations) meets for breakfast on Nov. 17, and the ATA Foundation trustees on the afternoon of Nov. 20. The big annual banquet is also scheduled for Thursday, Nov. 20.

**SIZE AND WEIGHT SUBCOMMITTEE OF** American Association of State Highway Officials is considering a revision of the present AASHO-recommended vehicle size and weight limits. No proposals are expected before the conclusion of the just-begun AASHO Road Test in Illinois (Oct., page 86). However, AASHO is encouraging highway users and equipment makers to submit their views. One particular point they want information on: Where do present AASHO limits create a hardship in fleet operation?

**PRODUCTION FIGURES** for August and the first eight months of 1958 are shown below. Despite—in some cases—a lag behind comparable 1957 data, estimates for 1959 are optimistic. For example, GMC expects domestic truck deliveries next year to total 900,000 vehicles as compared to an estimated 730,000 to 740,000 for 1958. At Truck Body & Equipment Assn.'s annual meeting last month in Atlantic City, N.J., a truck maker spokesman put the domestic market estimate for trucks in 1959 at 875,000. This, he said, is 16 per cent above the estimate for this year.

| In thousands of units, except bus sales are in actual numbers | New Truck Registrations | | Truck Factory Sales—Domestic | | Truck Trailer Shipments | | Bus Factory Sales—Domestic | | Truck and Bus Tires | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Replacement Shipments | | Original Equip. Shipments | | Inventory End of August |
| | August | 8 Months | August | 8 Months | August | 8 Months | August | 8 Months | August | 8 Months | August | 8 Months | |
| 1958 | 64.0 | 475.0 | 47.0 | 443.7 | 4.5 | 31.3 | 259 | 2030 | 871.4 | 5777.1 | 207.9 | 2118.2 | 2985.9 |
| 1957 | 77.1 | 579.0 | 74.2 | 615.7 | 4.8 | 39.1 | 281 | 2432 | 813.4 | 5716.0 | 327.8 | 2860.7 | 3128.9 |

# WHATEVER YOU NEED IN SERVICE OILS AND FLUIDS ...A PERMATEX CHEMICAL PRODUCT DOES IT BEST

Permatex products provide you with a full line of the right chemicals for all the special maintenance services you perform. Solvents like Solvo-Rust . . . tune-up oils like Permatex Toon-Oyl . . . lubricants like Graphite Grease . . . Automatic Transmission Fluid. Every one of them was tailored to its task . . . made for the professional . . . at a profit to you. Keep all these fine Permatex products on hand: PENETRATING OIL . . . PERMATEX TOON-OYL . . . SOLVO-RUST . . . ANTI-SEIZE COMPOUND (GRAPHITE GREASE) . . . HYDRAULIC JACK OIL . . . HEAVY-DUTY BRAKE FLUID . . . AUTOMATIC TRANSMISSION FLUID.

Send for your copy of the Permatex Catalog . . . which tells you how and where to use every member of this famous automotive chemical family. Ask your jobber or write us. Order the Permatex products you need!

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# PERMATEX

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*"There's a Permatex product for every maintenance need"*

SEALING COMPOUNDS • POLISHES AND CLEANERS • SERVICE OILS AND FLUIDS • HYDRAULIC FLUIDS • SERVICE AND REPAIR PRODUCTS

All 59 Fords wear the Thunderbird's own clean sculpturing. From left to right: the distinguished new Fairlane, the elegant new Fairlane 500 and the distinctive new Custom 300.

## For '59 Ford presents the cars...

# BEAUTIFULLY PROPORTIONED

Everything about these all-new 59 Fords is good for business. They bring you the rich prestige of new Thunderbird elegance. Here is beautiful proportioning that has already been awarded the Gold Medal of le Comité Français de l'Elégance at the Brussels World's Fair.

And Ford's 59 economy is just what the company treasurer ordered. There's a new *simplified* Fordomatic Drive that needs practically no servicing and is so realistically priced that it should banish "stick shifting" forever.

Full-Flow oil filtration means changing oil only every 4000 miles. There's a new *aluminized* muffler, too, that will normally last *twice* as long. And you'll save up to 5¢ on every gallon of gas because all standard Ford engines—Mileage Maker

# FOR BUSINESS USE

Six and Thunderbird V-8—thrive on *regular* gas. What's more, every gleaming inch of Ford's altogether new Thunderbird styling is protected by miraculous new Diamond Lustre Finish, the most durable finish on any car.

There's much, much more 59 Ford news—so see your Ford Dealer for the greatest office on wheels ever built.

**The right style, build and economy for the modern business fleet**

# 59 FORDS

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**FACTORY SERVICE BRANCH**

Free tool inspection when requested • Genuine B&D parts used • Factory-trained technicians handle all work • Standard B&D Guarantee at completion of recommended repairs • Fast service at reasonable cost.

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**Black & Decker®**
QUALITY ELECTRIC TOOLS



## NEW SLEEPER CAB
FIBRE GLASS REINFORCED PLASTIC

- Meets all ICC specifications.
- Most advanced engineered sleeper attachment built.
- Engineered to blend into advanced lines of present deluxe or standard cabs.
- Will decrease CA dimension only 22" — adds only 200 lbs. to gross weight.
- 5" innerspring mattress and built-in ventilating fan in roof furnished.
- 2 large access doors to storage compartment under sleeper bunk.
- Custom trimmed interior—insulating and acoustical properties of fiberglass plastic assures maximum sleeping comfort.
- Unit can be mounted easily by dealer or at our plant, with only one day tie-up of chassis.
- Demountable feature — Unit can be transferred to another chassis, or removed and filler panel installed by dealer making a more saleable used chassis.

THE D-E-K MANUFACTURING COMPANY
P. O. BOX 85 ORRVILLE, OHIO


# DATES and DOINGS

## NOVEMBER

9-12—National Defense Transportation Assn., Annual Convention and Logistics Forum, Hotel Sheraton-Jefferson, St. Louis, Mo.

10-15—Mid-Atlantic National Truck Show, State Farm Show Bldg. and Arena, Harrisburg, Pa.

12—Connecticut Automotive Trade Assn., Hotel Statler, Hartford, Conn.

12—Delaware Motor Truck Assn., Annual Meeting, Hotel DuPont, Wilmington, Del.

13-14—Associated Motor Carriers of Oklahoma, Annual Convention, Tulsa Hotel, Tulsa, Okla.

13-18—American Trucking Assns., Regular Common Carriers Conference, Board of Governors Annual Membership Meeting, Eden Roc and Fontainebleau Hotels, Miami Beach, Fla.

14-16—American Trucking Assns., National Truck Roadeo, Miami Beach Auditorium, Miami Beach, Fla.

16-21—American Trucking Assns., Annual Convention, Headquarters at Fontainebleau Hotel, Miami Beach, Fla.

17-18—American Trucking Assns., Private Carrier Conference, Annual Meeting, Fontainebleau Hotel, Miami Beach, Fla.

17-18—National Tank Truck Carriers, Directors' Meeting, Fontainebleau Hotel, Miami Beach, Fla.

17-20—International Soft Drink Industry Exposition (including truck and truck body displays), Convention Hall, Atlantic City, N. J.

## DECEMBER

1-5—American Assn. of State Highway Officials, Annual Meeting, Sheraton-Palace Hotel, San Francisco, Cal.

2—Transportation Assn. of America Institute, Meeting, San Francisco, Cal.

7-8—Missouri Bus and Truck Assn., Annual Convention, Governor Hotel, Jefferson City, Mo.

## JANUARY 1959

17-25—Chicago Automobile Trade Assn., Annual Automobile and Truck Show, International Amphitheatre, Chicago, Ill.

19-22—American Road Builders Assn., Annual Convention and Exhibit, Dallas Memorial Auditorium, Dallas, Tex.

25-28—Truck Trailer Manufacturers Assn., 18th Annual Convention, Hollywood Beach Hotel, Hollywood, Fla.

29-30—Private Truck Council of America, Annual Convention, Sherman Hotel, Chicago, Ill.

## FEBRUARY 1959

2-5—National Automotive Accessories Mfgs. of America, Exposition, Coliseum, New York, N. Y.

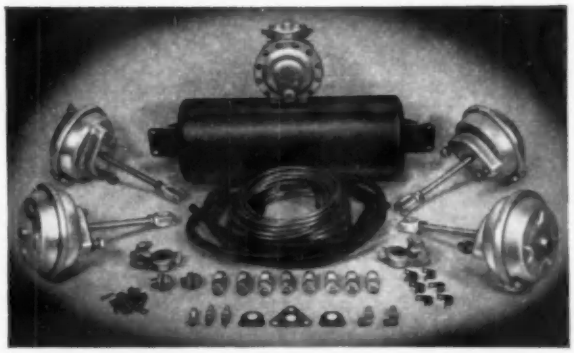
15-17—Motor and Equipment Wholesalers Assn., National Convention, Conrad Hilton Hotel, Chicago, Ill.

18-21—Automotive Service Industry Show, sponsored by MEWA, NSPA and MEMA, Navy Pier, Chicago, Ill.

# WAGNER AIR BRAKE FIELD INSTALLATION KITS

## permit low-cost conversion to air brakes for your vehicles!

There's no reason for trucks and tractors to lack modern, safe air brakes. Wagner Air Brake Field Installation Kits contain original equipment type Wagner Air Brake Components that permit low-cost conversion to a safe, economical protective system. All needed parts, connections, fittings and brackets are included, along with easy-to-follow detailed instructions.



**WAGNER FIELD KITS FOR TRUCK OR TRACTOR AIR BRAKES**

Complete installation kits provide all of the units and material necessary to economically install air brakes on specific vehicle makes and models. Each kit includes the famous 9 C.F.M. Wagner Rotary Air Compressor which operates at uniform torque load and assures a sufficient quantity of air at all times for safe, sure braking power.

**WAGNER FIELD KITS FOR TRAILERS**

Each Wagner Trailer Air Brake Kit contains a complete trailer brake system all in one package. All needed parts and connections fit easily into proper position with little or no drilling or tapping. This saves you money because time and labor required for installation is kept to a minimum. Kits are available for both single axle and tandem axle trailers.

**WAGNER COMPRESSOR KITS**

Specifically designed for the installation of Wagner's famous Rotary Air Compressor on many bus and truck engines. Kit is well suited for use on either new engines or for conversions which replace other types of air compressors.

Changing over to Wagner Air Brakes is a good investment in reducing air brake maintenance and in increasing road safety. And you'll be money ahead by specifying Wagner Air Brakes when ordering new equipment. Send for your copy of Catalog KU-201 . . . it fully describes the many types and kinds of equipment that make up the *complete* Wagner Air Brake line.

WK58-5

**Wagner Electric Corporation**

6470 PLYMOUTH AVENUE, ST. LOUIS 14, MO., U. S. A.

LOCKHEED BRAKE PARTS, FLUID, EXCHANGE SHOES and LINING • AIR HORNS • AIR BRAKES • TACHOGRAPHS • ELECTRIC MOTORS • TRANSFORMERS • INDUSTRIAL BRAKES

TIRED CABLE COULD CAUSE AN UNSCHEDULED STOP...

# REPLACE WITH LONG-LIFE PACKARD CABLE NOW

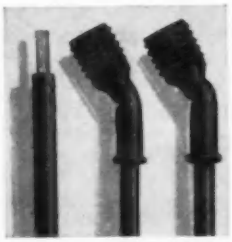
Don't wait for tired cable to give up. Replacement then would cost a great deal more than playing safe now. Many fleet maintenance departments have standing orders to install new Packard Cable at the first sign of age or wear in existing wiring.

Why Packard Cable? Because it's specially insulated to deliver more miles of service at less cost per mile—no matter how tough the going.

Packard is the complete original equipment line, with a cable for every automotive need—many of them Packard exclusives. More cars, trucks and buses are delivered with Packard Cable than all other makes combined. And the majority of maintenance award winners in the transportation industry use it, too.

Packaged and labeled for accurate, easy replacement, Packard Cable is available everywhere through the United Motors System.

## *There's a Packard Cable for every fleet need*

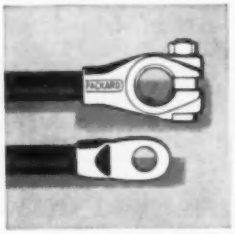


T.V.R.S. CABLE

This exclusive Packard ignition cable suppresses radio and TV interference. It is original equipment on millions of vehicles.

Long the leader, this Packard-developed high-tension cable is used on more vehicles than any other, except for Packard T.V.R.S.

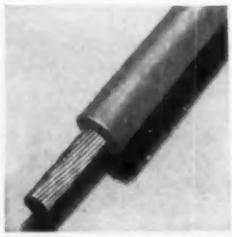
"440" IGNITION CABLE




BATTERY CABLE

Specially engineered by Packard to deliver full starting power, resist acids and corrosion, and make replacement easier.

Designed for exposed conditions, with extra-heavy tough plastic insulation that stands up to weather, wear and knocks.



SUPER DUTY CABLE

STEAM CLEANING CAN'T HARM PACKARD ENGINE COMPARTMENT CABLE

This compact, highly flexible low-tension cable is designed by Packard engineers to stand up under the toughest conditions. It's triple-insulated with a tough synthetic compound, close-knit glass braid and an outer jacket of a special Packard plastic compound.

It withstands high temperatures, diesel fuel and oil vapors—even the chemicals used in steam cleaning! Engine Compartment Cable is a newer member of the complete Packard Cable line, and just one more reason why Packard is first choice for both original equipment and replacement.

*Packard Electric*

*Warren, Ohio*

GM GENERAL MOTORS

*"Live Wire" division of General Motors*

# Fleetman's LIBRARY

**REVIEWING THE BEST IN CURRENT PUBLICATIONS ON MAINTENANCE, EQUIPMENT AND SAFETY OF INTEREST TO TRUCK, BUS AND CONSTRUCTION FLEET OPERATORS**

## Transit Fact Book

*from American Transit Assn.*
*292 Madison Ave., New York 17, N. Y.*

is the 1958 edition containing a multitude of transit statistics including taxes, transit trends, operating revenues etc. Copies are available to association members. For orders of 10 or more, price is 10¢ each.

## Carrier Regulation Text

*from William C. Brown Co.*
*135 S. Locust St., Dubuque, Iowa*

is written by Fritz R. Kahn, LL.B., Southeastern University. Titled "Principles of Motor Carrier Regulation," it contains the major principles of law governing interstate truck and bus transportation. The book avoids prolonged legal discussions. It is a practical handbook of motor carrier law. Part II of the Interstate Commerce Act, and decisions of both the ICC and the courts interpreting the act, are interpreted and applied. Fleet operators will find this book a useful reference. Price is $5.00.

## Engine Service Film

*from Mustang Engines*
*100 International Rd., Garland, Tex.*

is a 16 mm movie in full color with sound entitled "An Ounce of Prevention." It shows how to prevent and correct most engine failures by giving careful attention to proper engine installation. The picture shows several cases of improper installation which caused excessive heat build-up and improper lubrication resulting in engine failure. Also shown is the correct way to torque cylinder heads, adjust clutches, test pressure caps and cooling systems, and adjust valves. The film will be shown to fleets who request it. Arrangements can be made by writing the company direct or by contacting any Mustang distributor.

## Diesel Brochure

*from the Detroit Diesel Engine Division*
*General Motors Corp., Detroit 28, Mich.*

is called "There *is* a difference in Diesels." Covered are topics such as diesel vs. gasoline engines, the difference in two-cycle and four-cycle engines, fuel systems, parts interchangeability and service. Copies are free.

## Engine Rebuilding Text

*from Book Division, Chilton Co.*
*56th & Chestnut Sts., Philadelphia 39, Pa.*

is written specifically for automotive mechanics and machinists. Titled "Automotive Engine Rebuilding and Maintenance," the text covers the entire process of engine service, chapter sequence being the same that mechanics use in overhauling an engine. The text is written by Harold T. Glenn, a well known author in the automotive field, and contains 466 photographs showing typical conditions found in worn engines. Each chapter contains one phase of the engine work so that a mechanic doing a repair job smaller than a complete overhaul can refer to the section which applies to the job at hand. This thorough text can be used by students as well as on-the-job mechanics needing a handy reference. Price is $7.95.

## Driver Attitude Report

*From The ATA Foundation*
*1424—16th St., N.W., Washington 6, D. C.*

is a study entitled "What Motorists Think About Traffic Safety." Sponsored by the Pure Oil Company and the ATA Foundation, the booklet shows that most motorists believe they are better than average drivers, even those with poor accident records. It is written primarily for persons who communicate on traffic safety, such as safety supervisors. The ATA Foundation says, "The booklet is available without charge to those who communicate on that subject."

## Automatic Transmissions

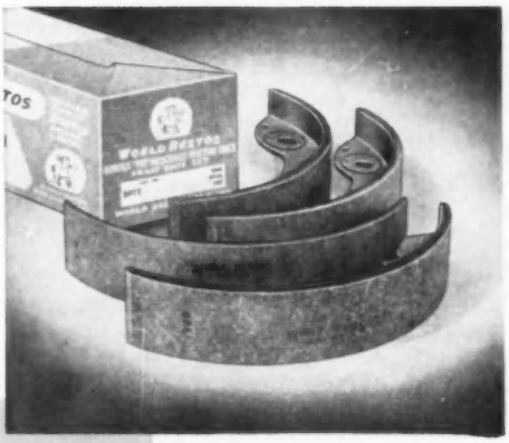
*from Paul-Marsh Co.*
*520 W. Fort St., Detroit 26, Mich.*

are described and illustrated in a new picture-story training manual covering on-the-car adjustments. Almost all automobile automatics are covered. Included are sections on operation, trouble shooting, adjustments, pressures and replacing seals. Danger signals indicating transmission trouble and a flat rate for service are also included. "On-the-Car Adjustments for Automatic Transmissions" is available at the above address or through Snap-on Tool dealers or Automotive Parts Wholesalers. Price is $10.00.

# cut down on costly accidents

## WORLD BESTOS "PFT" (Prescribed Friction Truck) brake lining sets were developed especially to assure Safe Stopping Power for Light and Medium Trucks

Ordinary brake lining can't stand up under the punishing stops, heavy loads and tight schedules of hard-driving, multi-stop service. But "*PFT*" sets give you safe, dependable stopping power at all times . . . because they're made up from *5 special friction formulas* developed by WORLD BESTOS *exclusively* for trucks and buses in this type of service. "*PFT*" brake lining sets give you *exactly* the *Right Combination* of friction qualities you need to keep your trucks out of the shop and on the job.




**"PFT"—Prescribed Friction Truck—gives you . . .**

**Correct dry-mix formulation** to withstand abusive service

**Stabilized friction** for fade control

**Economy**—longer lining life, reduced drum wear and maintenance time

**Greater safety**—that *extra* Stopping Power you need for repeated stops in hazardous traffic situations

**"PFT"** Bonded Shoe Sets come 4 pieces to a carton to equip one axle . . . cartons are clearly labeled for each type of truck and bus.

**"PFT"** is also available in single axle sets for riveting.

*Get full details and prices . . . Call your WORLD BESTOS Distributor or write direct to WORLD BESTOS, New Castle, Indiana.*

**WORLD BESTOS** NEW CASTLE INDIANA

## New Tractor "Package" Is Offered on

# Ford Trucks for '59

### 1959 Ford Trucks

| Series | GVW (lb) | Engine (hp, cyl) Standard | Engine (hp, cyl) Optional |
|---|---|---|---|
| **F Series** | | | |
| F100 | 5,000 | 139, 6 | 186, V-8 |
| F250 | 7,400 | | |
| F350 | 9,800 | | |
| F500 | 15,000 | 139, 6 | 186, V-8 |
| F600 | 17,000[1] | | 187, V-8 HD |
| F700 | 21,000[2] | 186, V-8 | 187, V-8 HD |
| F750 | 22,000 | 196, V-8 HD | ..... |
| F800 | 25,000 | 212, V-8 HD | ..... |
| F850 | 25,000 | 226, V-8 SD | ..... |
| F950 | 29,000 | | |
| F1000 | 30,000 | 260, V-8 SD | ..... |
| F1100 | 30,000[3] | 277, V-8 SD | ..... |
| **Four-Wheel-Drive Series** | | | |
| F100 | 5,500 | 139, 6 | 186, V-8 |
| F250 | 7,400 | | |
| **P Series** | | | |
| P350 | 8,000 | 139, 6 | 186, V-8 |
| P400 | 10,000 | | |
| P500 | 15,000 | | |
| **C Series** | | | |
| C550 | 18,000 | 186, V-8 | 187, V-8 HD |
| C600 | 19,500[4] | | |
| C700 | 22,000[5] | | |
| C750 | 23,000 | 196, V-8 HD | ..... |
| C800 | 26,000 | 212, V-8 HD | ..... |
| C850 | 26,000 | 226, V-8 SD | ..... |
| C950 | 30,000 | | |
| C1000 | 31,000 | 260, V-8 SD | ..... |
| C1100 | 30,000[3] | 277, V-8 SD | ..... |
| **T Series** | | | |
| T700 | 28,000[6] | 187, V-8 HD | 196, V-8 HD |
| T750 | 37,000 | 212, V-8 HD | ..... |
| T800 | 43,000[7] | | |
| T850 | 43,000[8] | 226, V-8 SD | 260, V-8 SD |
| T950 | 46,000[9] | | 277, V-8 SD |
| **B Series** | | | |
| B500 | 15,000 | 139, 6 | 186, V-8 |
| B600 | 17,000[1] | | 187, V-8 HD |
| B700 | 21,000[2] | 186, V-8 | 187, V-8 HD |
| B750 | 22,000 | 196, V-8 HD | ..... |
| Custom Ranchero | | 139, 6 | 292- cu in. |
| Courier | | | 352-cu in. |

1—19,500 lb GVW optional. 2—22,000 lb GVW optional. 3—36,000 lb GVW optional. 4—20,500 lb GVW optional. 5—23,000 lb GVW optional. 6—32,000 lb GVW optional. 7—45,000 lb GVW optional. 8—45,000 or 37,000 lb GVW optional. 9—51,000 or 48,000 lb GVW optional.

FORD TRUCKS for '59 include two new four-wheel-drive models—an F100 model with 5600-lb GVW rating and an F250 rated at 7400 lb GVW. Their exact availability will be announced later.

Also new are tilt-cab tandems with up to 51000-lb GVW and up to 75,000-lb GVW ratings. Wheelbases are 135, 147, 153, 161 in. or any length desired, says Ford. They are available on special order only.

**F, T and C Series** Model Nos. 750 and up are available with a new "Tractor Package." It includes ICC-approved air brakes and electrical connections, hand-control valve, tractor protection valve and dash control, clearance lights, trailer circuit breaker and relay, emergency stop light switch and turn signals.

A new 4-speed auxiliary—aimed at combining the advantages of both on- and off-highway speed units—will be offered on Model Nos. T800, 850 and 950 in 175- and 192-in. wheelbase versions about Jan. 1, 1959.

**Conventional cabs for** Model Nos. 700 and up have greater rigidly. Front-end sheet metal incorporates stabilizer rods mounted in an "X." This results in cab and sheet metal moving as unit to give greater strength.

Full line for '59 is detailed in the chart at left. In addition to the major new features described above, several improvements have been made or added.

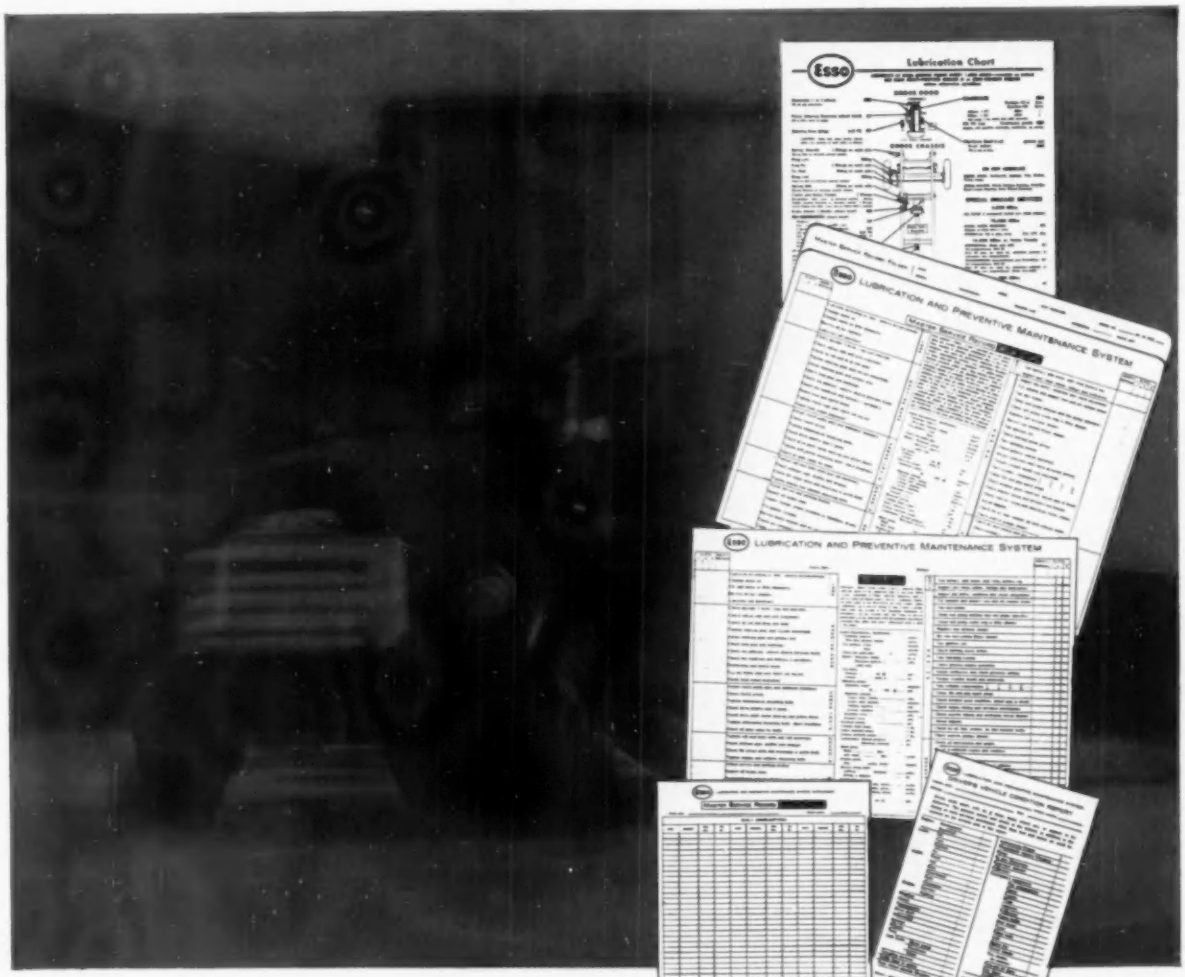
**Standard parking** brake on all Model Nos. 500 and up is a 2-shoe, internal-expanding type located on rear of the transmission. Full air brakes are standard on F and C Series, Model Nos. 1000 and 1100 and the T950. They are optional on all models starting with Nos. 700.

A new heavy-duty "Cruise-O-Matic" automatic transmission is offered on Model Nos. F250, 350 and the P Series. "Transmatic" drive can be specified on Model Nos. F500-600-700-750-800, C750-800, T700-750-800 and also on all school bus chassis (B Series). On Model Nos. F800 through F1100, C800 through C1100, T750 through T950, the 8-speed "RoadRanger" transmission is available.

**Standard clutch is** hydraulic actuated. Single plate

(TURN TO PAGE 252, PLEASE)

**Ford offers a "Tractor Package" in '59 including ICC-approved electrical connections and air brake, a hand control valve, a tractor protection valve with dash control, turn signals and emergency stop light switch. It's available on F, T and C Series Model Nos. 750 and up**




# NEW

# FLEET-CHECK SYSTEM

## A service designed to cut costs in fleet operation

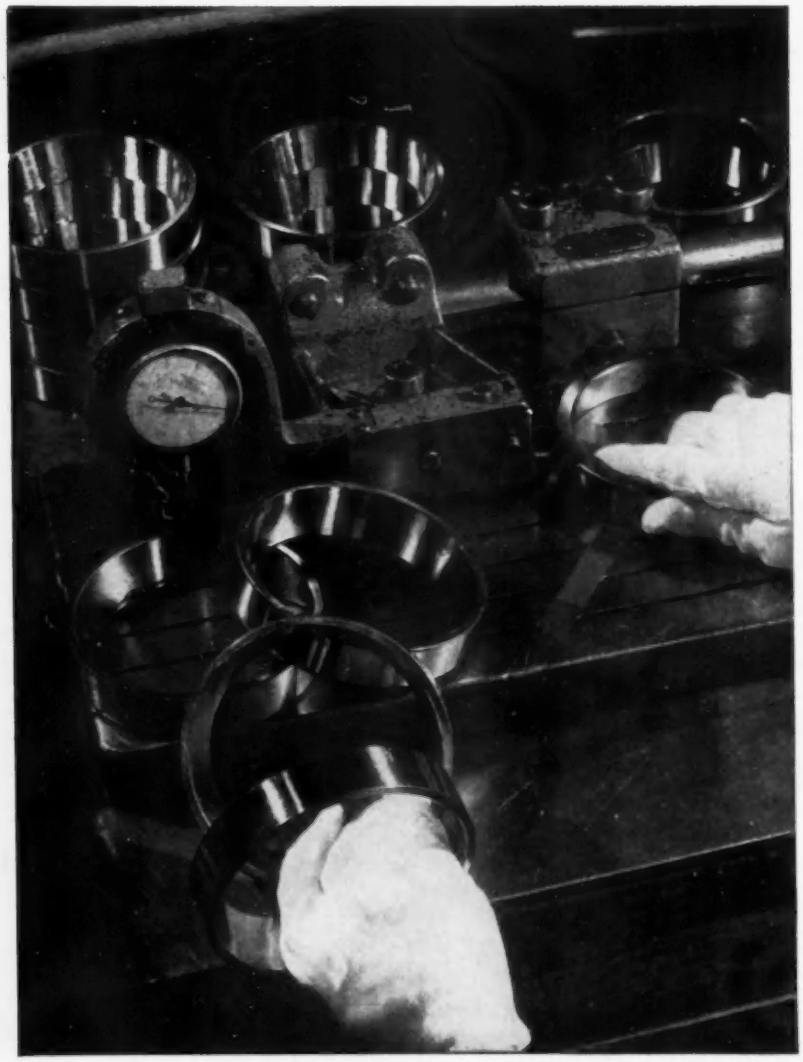
Esso's new Fleet-Check System can help you maintain a proper lubrication schedule that will pay off with lower maintenance costs. It provides for accurate cost control records and takes all the guesswork out of preventive maintenance. Regardless of the type and make of equipment you own, you can tell at a glance what needs to be lubricated, when, and with what type and grade of lubricant. There's a Fleet-Check System for your fleet, whether it be trucks or buses. This package has everything you need – including lubrication charts, maintenance service folders, work order forms, driver report forms, fuel and lubricant consumption records.

An experienced Esso Representative will be glad to set up a Fleet-Check System in your shop – and offer other technical assistance.
Just contact your nearest Esso office, or write: Fleet Engineering Service, Esso Standard Oil Company, 15 West 51st Street, New York 19, N. Y.

Esso

**In industry after industry...ESSO RESEARCH works wonders with oil**

# They have to pass the toughest tests before we give 'em their driver's license



*(Another reason why TIMKEN® bearings are first choice with truck manufacturers)*

THE precision instrument pictured here checks the outside diameter of a Timken® bearing cup to make sure it meets specifications. If it doesn't, it gets no "driver's license" for your truck. This exacting test is one of the many inspections that help assure that *every* Timken tapered roller bearing has the *same* high quality. Quality that means long bearing life, better and more economical operation for your truck.

Only Timken bearings give you *all* these advantages: 1) advanced design; 2) precision manufacture; 3) rigidly controlled quality; 4) special analysis Timken fine alloy steel—we're America's only bearing manufacturer that makes its own steel. That's why Timken bearings are first choice with men who know trucks best—the manufacturers.

Why not take your cue from engineers who design your trucks. Specify Timken tapered roller bearings for replacement. Look for the trade-mark "Timken" on every bearing. And for useful service information, send for your free copy of "Timken Tapered Roller Bearings—Their Care and Maintenance". Just write to: Dept. JCC-11, The Timken Roller Bearing Company, Canton 6, Ohio. Canadian plant: St. Thomas, Ontario. Cable address: "TIMROSCO."

## SINCE THEY'RE BEST WHEN THE TRUCK IS NEW, THEY'RE BEST FOR REPLACEMENT, TOO!

**TIMKEN** *TAPERED ROLLER BEARINGS ROLL THE LOAD*

TRADE-MARK REG. U. S. PAT. OFF.

*(Advertisement)*

Campbell 66 Express Inc., with its main terminal at Springfield, Mo., added tons of extra earning capacity to its operation this year when 12 old units were replaced with new Dorsey Satellite and Vanguard aluminum trailers. Owner Frank Campbell reports, "We operate 500 trailers between the Gulf Coast and the Great Lakes. These 12 new lightweight vans were put into service on the same routes covered by the older units. Now, we haul five extra tons of payload per trailer. Added up, that's a total gain of 60 extra tons for every trip they make. At that rate, it won't be too long before these new aluminum vans pay for themselves."

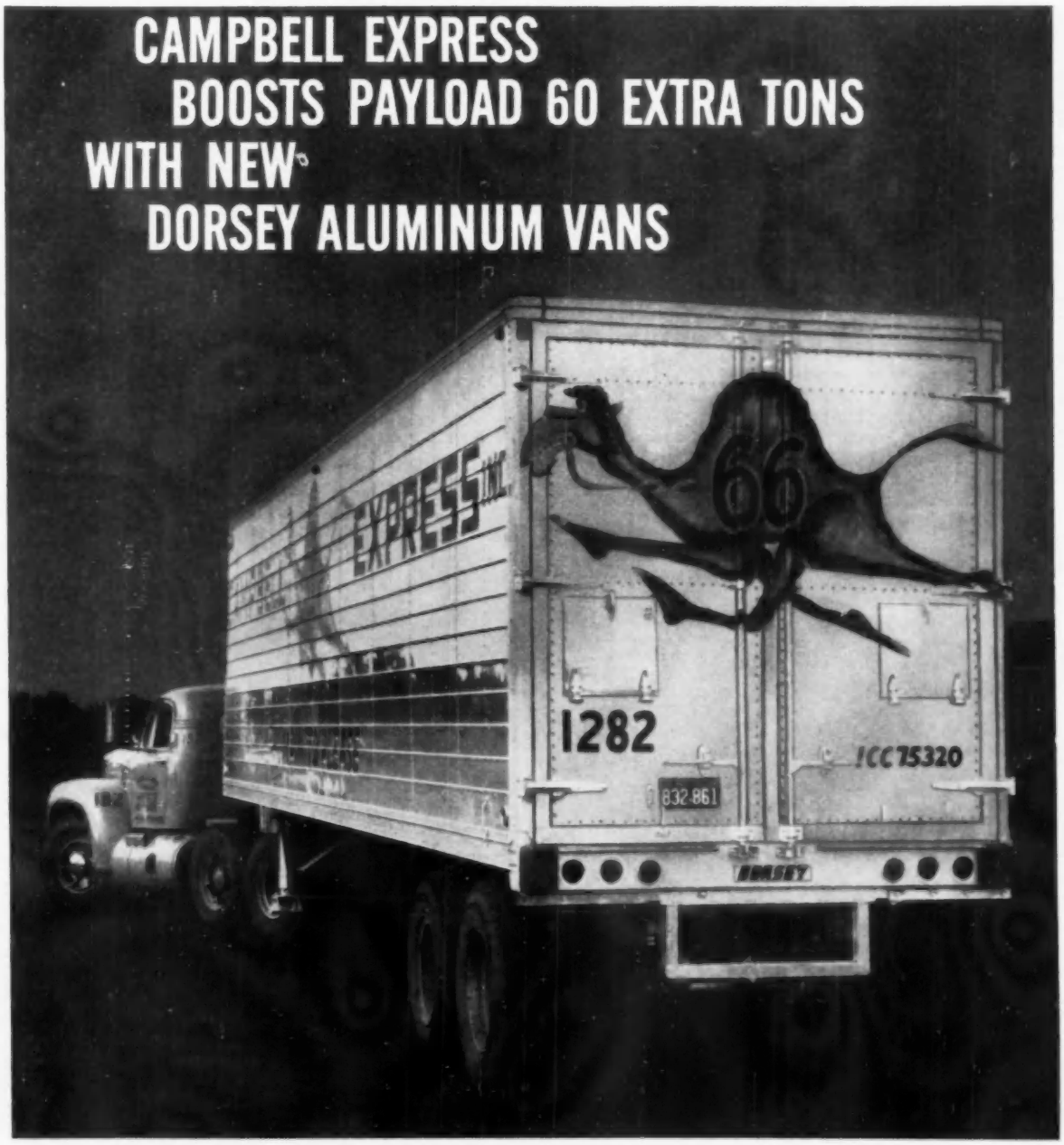
## Alcoa Aluminum makes the BIG difference

Campbell's high cube, lightweight trailers were built of Alcoa® Aluminum by DORSEY TRAILERS, INC., Elba, Ala. Incorporating Dorsey's patented folding bunker door, they permit switching from reefer to dry cargo hauling with minimum wasted space. Alcoa's one-piece roof sheet was used providing long-lasting, leakproof, dependable cargo protection. Corrosion-resistant aluminum trailers further add to extra profit through lower maintenance costs. They never need painting, stay like new with less attention. Send for your FREE copy of Alcoa's Fact Folder on trailer transports to: Aluminum Company of America, 1876-L Alcoa Building, Pittsburgh 19, Pa.

WE CHOOSE ALCOA ALUMINUM

*Your Guide to the Best in Aluminum Value*

ALCOA THEATRE
Fine Entertainment, Alternate Monday Evenings



# Laugh it off

**1st Freight Loader: "I'm worried about something that has come over my wife."**

**2nd Freight Loader: "That's too bad. What is it?"**

**1st Freight Loader: "An expensive new dress that I didn't buy for her."**

CCJ

Maintenance Steno: "Honey, I hear that you're dating my old friend, Charlie, the ignition specialist. Does he still swear as terriby as he did when I used to date him?"

Freight Claim Steno: "Yes, and he still does a poor job of it. He seems to know all the choice cuss words but he just can't get any expression in them."

CCJ

*Truck Terminal Manager: "Yeah, Sam, I'm a very happy man. I have a beautiful home, a good job, good health and I enjoy an occasional bottle of bourbon. But most of all, I've got the finest wife in the country."*

*Traveling Freight Agent: "Who wouldn't be happy with his wife in the country."*

CCJ

LAWYER: "I HAVE SOME NEWS FOR YOU, MISS LUSHUS. YOUR DECEASED EMPLOYER HAS NAMED YOU BENEFICIARY IN HIS WILL."

CUTE STENO: "I'D HEARD GOSSIP ALL ALONG THAT HE HAD ONE, BUT HONESTLY, SIR, IT WASN'T ME."

CCJ

Gypsy Trucker's Wife: "Sam, I shall never go to another formal dinner with you. I was never so embarrassed in all my life. The very idea eating with your knife. Why did you do a thing like that?"

Gypsy Trucker: "My fork leaked."

TRUCK DISPATCHER: "I SAW YOU STANDING ON THE CORNER YESTERDAY, WINKING AT GIRLS."

REEFER DRIVER: "YOU'RE CRAZY WITH THE HEAT. I WASN'T WINKING THAT'S A WINDY CORNER. SOMETHING GOT IN MY EYE."

TRUCK DISPATCHER: "SHE GOT INTO YOUR CAR, TOO."

CCJ

Tank Truck Driver: "Watcha doin' with all them bandages on your face and head, Mac?"

Rag-Top Driver: "I've got seenus trouble."

Tank Truck Driver: "You mean sinus, don't you?"

Rag-Top Driver: "No, I mean seenus. I was out with a married woman last night and her husband seen us."

*"Cici Jay"*

**"I appreciate your help sir, but let's be a little more careful what we stuff in the files!"**

*Steno Lou: "For the life of me Susie, I don't know why you go out with that Shop Foreman down at Fleety-Fleet Express. He can't dance at all."*

*Steno Sue: "I can't argue with you there, Louisa. He's about the lousiest dancer I was ever stepped on by. But, man, oh man, how that knuckle bustin' supervisor can intermission!"*

CCJ

**Steno May: "I'm having a party tonite. Can you come over?"**

**Steno Fay: "I haven't a thing to wear."**

**Steno May: "That's O.K., I'll get you a blind date."**

CCJ

Shop Foreman: "Sam, you've been hitting the bottle so long and so frequently that your nose is beginning to take on a rosy hue. And what's more you're going to ruin your health."

Diesel Mechanic: "You're right, boss, I ain't been feelin' so good lately, so I been to see the Doc. He told me the same thing, I've been drinking too much. Said I'd have to cut down or it would kill me."

Shop Foreman: "Well, are you going to take his advice and cut down?"

Diesel Mechanic: "Sure, boss, I'm gonna switch from Four Roses to Three Feathers."

CCJ

TANK TRUCK DRIVER: "MINNIE, DO YOU THINK I'M STUCK UP?"

DINER WAITRESS: "WHY CERTAINLY NOT. WHY?"

TANK TRUCK DRIVER: "WELL, MEN AS GOOD LOOKING AS I AM USUALLY ARE."

Resume Work

# 300%

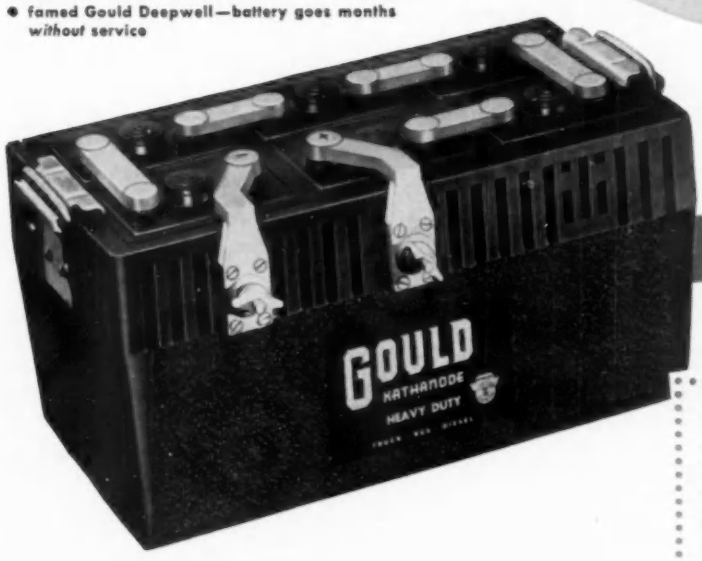
***more resistance to overcharge****
***greater resistance to undercharge****
***the two worst battery killers***

# new GOULD

and brawny **GOULD** batteries have these features for long over-the-road hauls or stop-and-start city service.

- thicker stronger plates—for extra miles of service
- new hard-rubber containers—space for bigger plates, extra electrolyte
- new cell supports—extra protection against vibration, bumps
- new element protectors—reduce damage from careless servicing
- double insulation—stop plate oxide shedding
- famed Gould Deepwell—battery goes months *without* service

**Silver Cobalt**
**SEALED CHARGE**
**TRUCK • BUS • DIESEL BATTERIES**




**STAY STRONGER LONGER**
—because of this silver lining

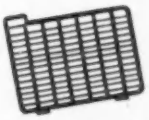
**HERE'S WHY**

Corrosion eats away battery grid material just like rust eats away bare steel. Coated steel lasts indefinitely because it doesn't rust. Similarly, silver cobalt coats the battery grids, protecting them from corrosion. The grids last longer—the battery performs better—stays stronger longer.

Bare unprotected steel rusts

Coated steel resists rust

Unprotected battery grids corrode


Silver cobalt grids resist corrosion

*Get the complete silver cobalt story from your Gould dealer — or write*

## GOULD-NATIONAL BATTERIES, INC.

**SAINT PAUL 1, MINNESOTA**

*Overcharging and undercharging together account for 80% of all battery failures! New Gould silver cobalt batteries have triple resistance to overcharge, greater resistance to undercharge—compared to SAE minimums.

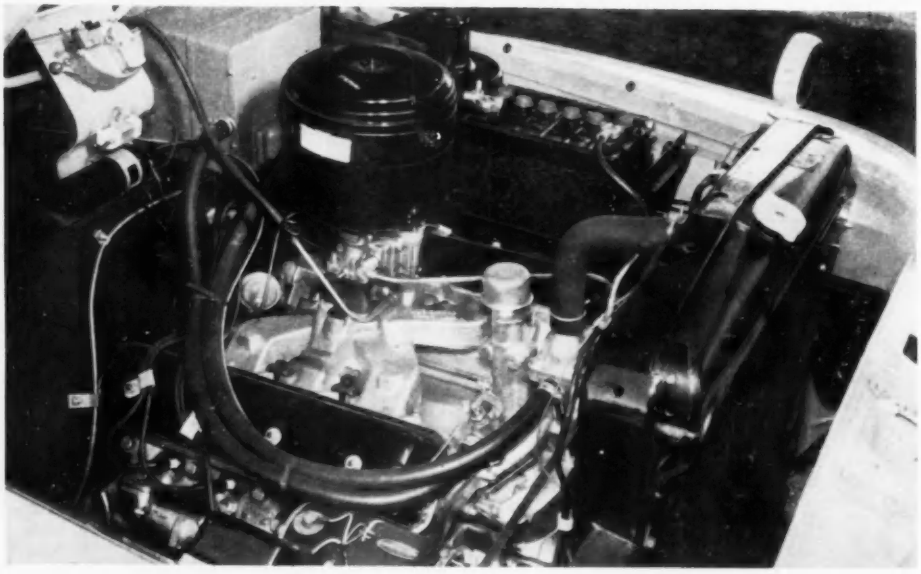
**GET GOULD BATTERIES FOR YOUR FORKLIFT TRUCKS**

## Scotsman Pick-Up Leads

# Studebaker Trucks for '59

**Rated at 5000 lb GVW, it comes in 51½-in. body widths, 112 or 122-in. wheelbase**

New Studebaker "Scotsman" pick-up body has width of 51½ in., comes in 112-in. wheelbase model with 6½-ft long body and in 122-in. wheelbase model with body length of 8 ft



Power plants offered on "Scotsman" include a 170-cu in., 6 cyl engine or (shown at left) a new 259-cu in. V-8 with 180 hp @ 4500 rpm

STUDEBAKER'S '59 line of trucks is headed by its new Scotsman pick-up. Goal is to offer a truck with low initial cost, low operating cost. Here's how it looks:

Body is wide—51½ in. On 112-in. wheelbase models, pick-up body measures 6½ ft long. An 8-ft pick-up or stake body is offered on the 122-in. wheebase version. Hardware and trim are kept to a minimum. Body is designed to keep wheel wells from breaking-up load area.

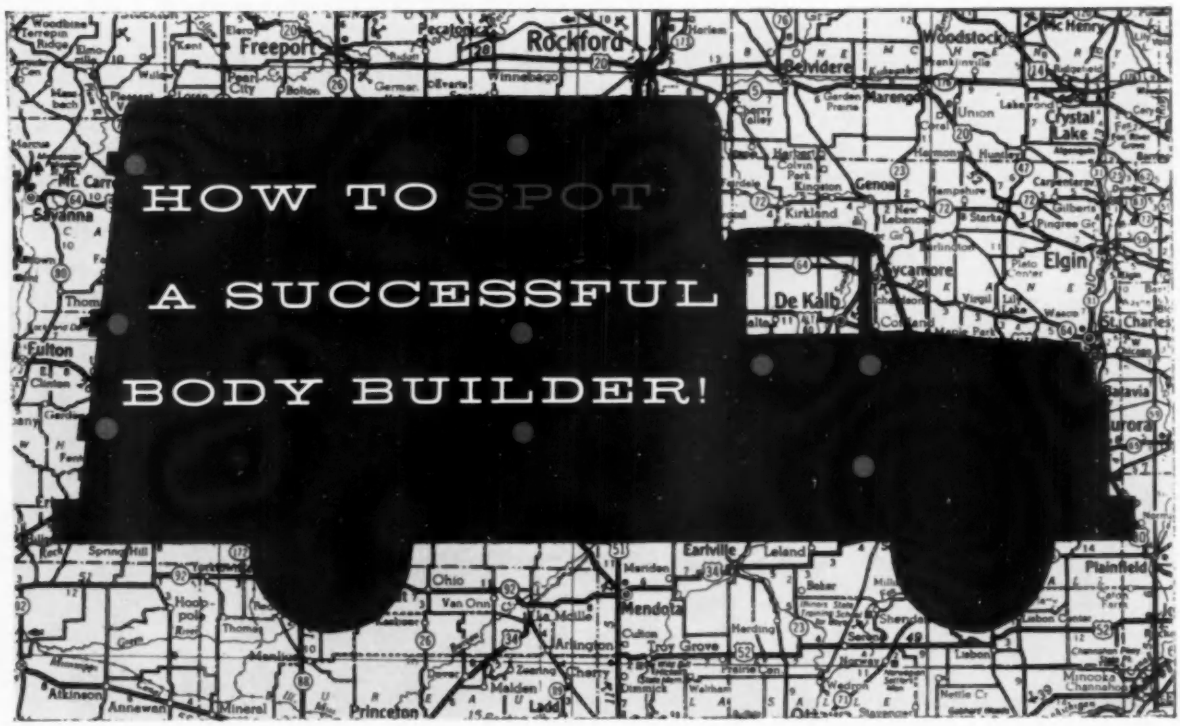
**Scotsman is rated at** 5000 lb GVW. Single-stage rear springs are standard with heavy-duty, two-edge springs optional. Also optional is the "Twin Traction" differential that transmits power to rear wheel with greatest traction.

Power plants available are new 170 cu in., 6-cyl engine or a new 259 in. V-8. This one develops 100 hp @ 4500 rpm. Heavy-duty, 3-speed transmission is standard with either engine. A 4-speed synchromesh or overdrive are optional. Automatic transmission is optional with the V-8 engine only.

**The "Transtar" ½-ton model** also is offered in 112- or 122-in. wheelbase versions, but has 5200-lb GVW rating. Again, a 6½-ft pick-up body is available on the shorter model and an 8-ft stake or pick-up on the 122-in. wheelbase.

Engine is a 289 cu in. V-8. It's rated at 225 hp at

(TURN TO PAGE 254, PLEASE)



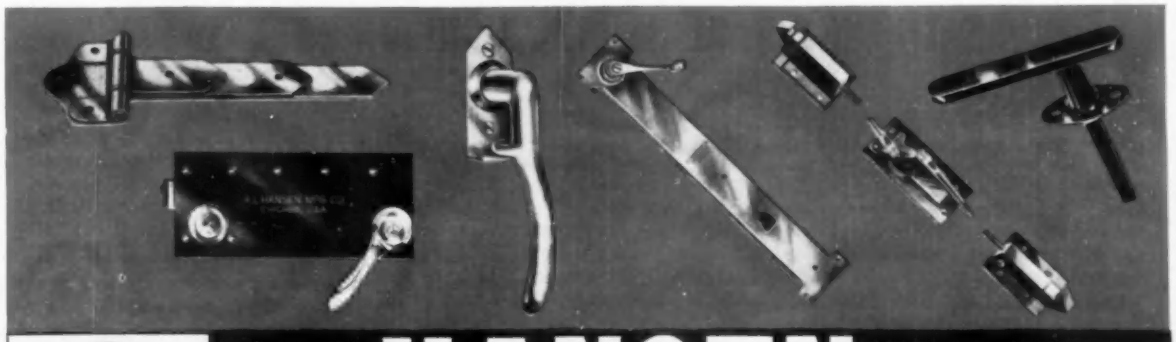

# HANSEN *COMMERCIAL BODY* HARDWARE

Leading auto body builders from coast to coast insist on using Hansen Commercial Body Hardware . . . in fact, they've done so for almost 40 years. They know Hansen can't be beat for quality, design, easy installation and rugged dependability . . . important points which contribute to successful body construction. Better

**SEND FOR COMPLETE DETAILS!**

***HANSEN . . . The Hardware For Hard Wear***

Representatives in All Principal Cities



HANSEN HARDWARE *for* Commercial Bodies

**A. L. HANSEN MFG. CO.**

5037 Ravenswood Avenue, Chicago 40, Illinois

# WAS THIS A BRAKE-BLOCK "BARGAIN" YESTERDAY?

No truck operator would *knowingly* put his drivers or his loads in jeopardy. However, it *is* possible to do so without even realizing it—*if* an operator falls for the story of manufacturers who are marketing inferior brake blocks as replacements for original blocks.

**UNSAFE BLOCKS.** Let's backtrack a minute and get the whole story. These "bargain" blocks, by appearance, can't be told from quality blocks. And they're being bought by wholesalers and truck operators in the mistaken belief that they're top-quality products.

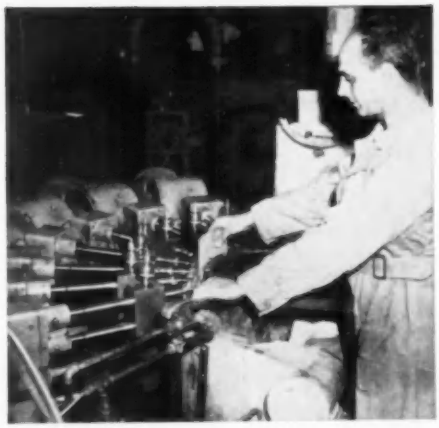
Where quality blocks deliver dependable, long-time performance, these inferior blocks wear out *fast* and lose their stopping power in a short period of time. They steal profits from the trucker by forcing more frequent replacement. So the truck operator loses *two* ways—first, in the safety risk he takes with "junk" brake blocks; second, in down time and replacement expense. So yesterday's brake-block "bargain" can easily turn out to be today's headache.

**THERE IS AN ANSWER.** Fortunately, we in the manufacturing end—and you in the consuming end—*can* put a stop to the sale of "junk" blocks. *We* can do so by publicizing to the trucking industry the existence of this merchandise. *You* can deliver the major blow by refusing to buy anything but "name brands" in brake blocks—whether it be Bendix* or some other reputable brand.

**Look at replacement block quality in the light of these original equipment facts. Automobile and truck manufacturers go to great lengths to protect their customers by installing only brake linings made by responsible people. And, because Bendix has so satisfied vehicle manufacturers, our linings are on more new vehicles than any other brand.**

*REG. U. S. PAT. OFF.

# It takes more than a bucket and a kitchen stove to manufacture quality brake lining



ONE EXAMPLE of the precision equipment used in manufacturing Bendix-Eclipse brake blocks is a battery of special machine tools which drill and counterbore block holes to the exact specifications required for perfect fits on various types of brake shoes.

AT BENDIX-ECLIPSE, brake blocks are formed in single and double wave molds under tons of pressure and rigidly controlled temperatures. Result: A uniform, dense, strong, and tough friction material.

LARGE QUANTITIES of special Bendix-manufactured resins are kept in these special storage tanks ready for use in Bendix-Eclipse brake blocks and linings.

**BENDIX-ECLIPSE**

Marshall-Eclipse Division

Troy, New York

Bendix AVIATION CORPORATION

# 1958 New Truck Registrations

| STATE AND MONTH | | Brockway | Chevrolet | Diamond T | Divco | Dodge | Ford | FWD | GMC | International | Kenworth | Mack | Peterbilt | Studebaker | White | Willys Jeep | Willys Truck | Misc. Dom. | Foreign | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alabama | Aug. | | 500 | | 1 | 35 | 293 | | 116 | 119 | | 56 | | 1 | 10 | 4 | 6 | | 51 | 1,192 |
| | 8 Mos. | | 3494 | 16 | 14 | 336 | 2135 | 1 | 799 | 872 | 1 | 302 | | 13 | 75 | 32 | 53 | | 266 | 8,409 |
| Arizona | Aug. | | 314 | 3 | | 38 | 225 | | 105 | 59 | 11 | | 1 | 2 | 5 | 7 | 16 | 2 | 38 | 826 |
| | 8 Mos. | | 2057 | 11 | 8 | 310 | 1547 | 1 | 526 | 424 | 27 | 18 | 6 | 25 | 22 | 48 | 102 | 15 | 201 | 5,348 |
| Arkansas | Aug. | | 584 | 2 | | 52 | 371 | | 102 | 171 | | 10 | | 7 | 41 | 3 | 1 | 3 | 18 | 1,365 |
| | 8 Mos. | | 3472 | 15 | | 342 | 2373 | | 720 | 886 | | 73 | | 41 | 69 | 33 | 36 | 3 | 45 | 8,108 |
| California | Aug. | | 2884 | 25 | 15 | 270 | 2383 | 7 | 450 | 424 | 15 | 32 | 15 | 37 | 65 | 76 | 80 | 13 | 565 | 7,356 |
| | 8 Mos. | | 16926 | 123 | 83 | 2447 | 15351 | 22 | 2924 | 3239 | 119 | 163 | 159 | 281 | 480 | 429 | 542 | 59 | 3654 | 47,003 |
| Colorado | Aug. | | 402 | 1 | 3 | 85 | 263 | | 90 | 104 | 10 | 8 | | 6 | 6 | 37 | 39 | | 12 | 1,066 |
| | 8 Mos. | | 2883 | 6 | 17 | 549 | 2248 | 5 | 693 | 839 | 28 | 69 | 15 | 49 | 58 | 224 | 321 | 28 | 86 | 8,118 |
| Connecticut | Aug. | 3 | 145 | 1 | 2 | 33 | 95 | 1 | 83 | 79 | | 12 | | 1 | 13 | 18 | 24 | 1 | 59 | 570 |
| | 8 Mos. | 16 | 1184 | 16 | 24 | 257 | 846 | 3 | 437 | 536 | | 90 | | 17 | 132 | 76 | 154 | 3 | 327 | 4,116 |
| Delaware | Aug. | 1 | 74 | 6 | | 9 | 37 | | 10 | 40 | | 12 | | | 3 | 2 | 1 | 1 | 10 | 206 |
| | 8 Mos. | 3 | 510 | 23 | 2 | 86 | 317 | | 79 | 257 | | 81 | | 4 | 103 | 17 | 12 | 4 | 34 | 1,532 |
| District of Columbia | Aug. | | 60 | 6 | 3 | 13 | 39 | | 18 | 15 | | 5 | | | | 1 | 3 | | 11 | 174 |
| | 8 Mos. | | 467 | 13 | 17 | 77 | 497 | | 125 | 101 | | 40 | | | 7 | 2 | 33 | 1 | 65 | 1,445 |
| Florida | Aug. | | 686 | 17 | 9 | 67 | 568 | 6 | 200 | 197 | | 51 | | 14 | 50 | 36 | 51 | | 169 | 2,121 |
| | 8 Mos. | | 4876 | 78 | 130 | 485 | 4213 | 35 | 1067 | 1342 | 1 | 332 | | 87 | 394 | 199 | 382 | 2 | 1013 | 14,636 |
| Georgia | Aug. | | 535 | 22 | | 59 | 563 | | 150 | 184 | 1 | 32 | | 8 | 16 | 10 | 13 | 2 | 57 | 1,752 |
| | 8 Mos. | | 4477 | 48 | 16 | 538 | 3922 | | 943 | 1227 | 9 | 217 | | 48 | 153 | 64 | 82 | 2 | 338 | 12,084 |
| Idaho | Aug. | | 242 | 1 | 1 | 37 | 124 | 1 | 56 | 64 | 2 | 2 | | 10 | 2 | 9 | 17 | 1 | 14 | 583 |
| | 8 Mos. | | 1504 | 6 | 2 | 257 | 914 | 5 | 405 | 631 | 40 | 26 | 5 | 63 | 31 | 31 | 146 | 2 | 72 | 4,142 |
| Illinois | Aug. | | 781 | 24 | 5 | 101 | 620 | 1 | 185 | 328 | | 23 | | 10 | 39 | 18 | 29 | 6 | 93 | 2,263 |
| | 8 Mos. | | 6745 | 236 | 61 | 1122 | 5851 | 28 | 1446 | 3667 | | 340 | | 137 | 342 | 104 | 281 | 86 | 570 | 21,016 |
| Indiana | Aug. | | 562 | 7 | 6 | 89 | 457 | | 116 | 290 | 2 | 33 | | 12 | 31 | 2 | 11 | 5 | 36 | 1,659 |
| | 8 Mos. | 1 | 4302 | 64 | 64 | 684 | 3343 | 2 | 913 | 1931 | 4 | 261 | 1 | 200 | 322 | 34 | 146 | 39 | 197 | 12,508 |
| Iowa | Aug. | | 526 | 9 | 8 | 38 | 375 | 1 | 84 | 143 | 2 | 8 | | 8 | 6 | 2 | 8 | | 25 | 1,243 |
| | 8 Mos. | | 3652 | 131 | 24 | 446 | 2822 | 3 | 546 | 1645 | 9 | 59 | | 56 | 79 | 15 | 63 | 1 | 157 | 9,708 |
| Kansas | Aug. | | 478 | 2 | | 31 | 359 | | 68 | 155 | 1 | 7 | | 5 | 6 | 7 | 11 | 3 | 19 | 1,152 |
| | 8 Mos. | | 3907 | 33 | 4 | 363 | 3062 | 1 | 674 | 1230 | 10 | 37 | | 79 | 68 | 30 | 169 | 4 | 96 | 9,767 |
| Kentucky | Aug. | | 389 | 1 | 1 | 129 | 261 | | 109 | 112 | | 13 | | 3 | 11 | 10 | 15 | | 17 | 1,071 |
| | 8 Mos. | | 2823 | 13 | 5 | 439 | 2076 | 1 | 673 | 875 | | 79 | | 29 | 85 | 57 | 87 | | 106 | 7,348 |
| Louisiana | Aug. | | 573 | 18 | | 31 | 445 | | 104 | 114 | | 20 | | 3 | 13 | 13 | 4 | | 31 | 1,369 |
| | 8 Mos. | | 4616 | 54 | | 365 | 3351 | | 771 | 1061 | 4 | 114 | | 35 | 71 | 64 | 55 | | 239 | 10,800 |
| Maine | Aug. | 2 | 107 | | 1 | 15 | 81 | | 22 | 51 | | 3 | | 8 | 2 | 3 | 11 | | 14 | 320 |
| | 8 Mos. | 9 | 872 | 2 | 25 | 134 | 720 | | 255 | 586 | | 47 | | 32 | 25 | 58 | 122 | 2 | 103 | 2,992 |
| Maryland | Aug. | 3 | 260 | 7 | | 37 | 195 | | 64 | 101 | | 21 | | | 25 | 8 | 11 | | 49 | 781 |
| | 8 Mos. | 14 | 2001 | 14 | 17 | 387 | 1503 | | 385 | 723 | | 147 | | 20 | 118 | 37 | 99 | 4 | 165 | 5,634 |
| Massachusetts | Aug. | 3 | 148 | 1 | 1 | 33 | 147 | | 48 | 67 | | 11 | | 3 | 11 | 9 | 24 | | 62 | 568 |
| | 8 Mos. | 35 | 1643 | 9 | 35 | 452 | 1825 | 3 | 549 | 866 | | 168 | 1 | 25 | 176 | 103 | 255 | 17 | 435 | 6,597 |
| Michigan | Aug. | | 617 | 12 | 8 | 100 | 574 | | 112 | 129 | | 21 | | 4 | 25 | 13 | 18 | 2 | 105 | 1,740 |
| | 8 Mos. | | 4977 | 69 | 97 | 1080 | 4644 | 15 | 1029 | 1148 | | 243 | | 68 | 244 | 91 | 206 | 42 | 560 | 14,513 |
| Minnesota | Aug. | | 425 | 9 | 4 | 39 | 415 | 1 | 81 | 210 | 3 | 8 | | 9 | 8 | 2 | 6 | | 23 | 1,245 |
| | 8 Mos. | | 3291 | 43 | 34 | 543 | 3293 | 7 | 659 | 1577 | 4 | 83 | | 111 | 67 | 17 | 80 | 8 | 227 | 10,044 |
| Mississippi | Aug. | | 548 | 3 | | 25 | 355 | | 113 | 120 | | 7 | | 4 | 2 | 13 | 4 | | 11 | 1,205 |
| | 8 Mos. | | 3032 | 6 | | 154 | 2299 | | 535 | 743 | | 34 | | 22 | 16 | 41 | 17 | 1 | 61 | 6,961 |
| Missouri | Aug. | | 710 | 6 | | 55 | 496 | | 159 | 148 | | 19 | | 9 | 24 | 11 | 18 | | 34 | 1,689 |
| | 8 Mos. | | 5731 | 49 | | 548 | 3816 | 1 | 1195 | 1768 | 2 | 176 | | 79 | 239 | 68 | 106 | 8 | 213 | 13,999 |
| Montana | Aug. | | 187 | | | 50 | 196 | 1 | 41 | 107 | 7 | 5 | | 3 | 3 | 10 | 31 | | 17 | 658 |
| | 8 Mos. | | 1189 | 7 | 1 | 279 | 1135 | 3 | 305 | 744 | 16 | 32 | 1 | 41 | 42 | 67 | 194 | 1 | 99 | 4,156 |
| Nebraska | Aug. | | 312 | 15 | 5 | 22 | 248 | | 72 | 139 | 2 | 6 | 10 | 1 | 4 | 3 | 12 | 1 | 15 | 867 |
| | 8 Mos. | | 2423 | 84 | 14 | 277 | 1809 | 3 | 469 | 1120 | 18 | 35 | 21 | 37 | 89 | 60 | 103 | 4 | 83 | 6,649 |
| Nevada | Aug. | | 54 | | | 7 | 52 | | 17 | 7 | | | | 3 | | 2 | 4 | | 9 | 155 |
| | 8 Mos. | | 445 | | | 46 | 381 | 1 | 90 | 127 | | 2 | 1 | 18 | | 6 | 29 | 1 | 120 | 1,267 |
| New Hampshire | Aug. | | 66 | | | 18 | 39 | | 20 | 25 | | 1 | | 2 | 2 | 9 | 14 | | 15 | 211 |
| | 8 Mos. | 4 | 564 | 2 | 15 | 115 | 411 | | 147 | 245 | | 52 | | 32 | 22 | 59 | 116 | 2 | 174 | 1,960 |
| New Jersey | Aug. | 19 | 403 | 6 | 18 | 84 | 389 | 2 | 226 | 194 | 4 | 32 | | 6 | 49 | 20 | 56 | 6 | 108 | 1,622 |
| | 8 Mos. | 110 | 3383 | 88 | 172 | 809 | 2779 | 15 | 1159 | 1328 | 5 | 337 | | 38 | 495 | 125 | 335 | 13 | 707 | 11,898 |
| New Mexico | Aug. | | 290 | 2 | 1 | 26 | 191 | | 93 | 63 | 3 | 8 | | 5 | 3 | 7 | 11 | | 9 | 712 |
| | 8 Mos. | | 2129 | 8 | 1 | 260 | 1394 | 1 | 600 | 431 | 7 | 63 | | 31 | 31 | 49 | 100 | 2 | 49 | 5,156 |
| New York | Aug. | 23 | 821 | 6 | 16 | 162 | 713 | | 328 | 575 | | 100 | | 11 | 96 | 45 | 89 | 3 | 167 | 3,155 |
| | 8 Mos. | 242 | 6384 | 80 | 163 | 1698 | 5605 | 34 | 1823 | 4043 | 2 | 744 | | 111 | 697 | 362 | 833 | 82 | 1624 | 24,527 |
| North Carolina | Aug. | | 746 | 6 | 2 | 125 | 563 | | 135 | 197 | | 30 | | 13 | 40 | 44 | 26 | | 37 | 1,964 |
| | 8 Mos. | | 4478 | 94 | 22 | 542 | 3647 | 3 | 842 | 1277 | | 325 | | 63 | 244 | 104 | 101 | 2 | 200 | 11,944 |
| North Dakota | Aug. | | 165 | 1 | 1 | 30 | 169 | | 39 | 124 | | 1 | | 2 | | | 1 | | 2 | 535 |
| | 8 Mos. | | 972 | 8 | 6 | 214 | 926 | | 211 | 805 | | 10 | | 37 | 3 | 8 | 21 | 2 | 35 | 3,258 |
| Ohio | Aug. | 1 | 715 | 5 | 8 | 161 | 798 | 4 | 202 | 299 | | 31 | | 10 | 54 | 15 | 25 | 3 | 112 | 2,443 |
| | 8 Mos. | 5 | 5862 | 113 | 101 | 1166 | 5215 | 16 | 1575 | 2405 | | 366 | | 111 | 527 | 87 | 304 | 13 | 636 | 18,502 |
| Oklahoma | Aug. | | 768 | | | 54 | 458 | | 120 | 151 | | 4 | | 10 | 31 | 7 | 4 | 1 | 15 | 1,623 |
| | 8 Mos. | | 4489 | 7 | 1 | 354 | 3140 | 1 | 731 | 1045 | 2 | 69 | | 62 | 112 | 37 | 45 | 8 | 109 | 10,212 |
| Oregon | Aug. | | | | | | | | | | | | | | | | | | | |
| | 8 Mos. | | | | | | | | | | | | | | | | | | | |
| Pennsylvania | Aug. | 15 | 816 | 13 | 9 | 212 | 682 | | 226 | 403 | | 88 | | 15 | 47 | 49 | 111 | | 171 | 2,857 |
| | 8 Mos. | 95 | 6273 | 126 | 129 | 1849 | 5121 | 5 | 1558 | 3188 | | 875 | | 200 | 541 | 318 | 727 | 11 | 908 | 21,924 |
| Rhode Island | Aug. | | 31 | | | 3 | 386 | | 7 | 21 | | 19 | | | 1 | 1 | 5 | | 24 | 498 |
| | 8 Mos. | 3 | 293 | 5 | 9 | 73 | 962 | | 127 | 167 | 1 | 61 | | 4 | 31 | 10 | 26 | 1 | 125 | 1,918 |
| South Carolina | Aug. | | 288 | | 1 | 33 | 214 | | 56 | 46 | | 15 | | | 6 | 8 | 3 | | 28 | 698 |
| | 8 Mos. | 1 | 2186 | 1 | 3 | 218 | 1476 | | 316 | 437 | | 148 | | 17 | 68 | 23 | 33 | | 145 | 5,072 |
| South Dakota | Aug. | | 145 | 1 | 2 | 25 | 124 | | 31 | 98 | 1 | 1 | | 8 | | 3 | 10 | | 15 | 464 |
| | 8 Mos. | | 1110 | 12 | 5 | 199 | 1129 | 3 | 262 | 869 | 1 | 10 | | 52 | 11 | 30 | 81 | 5 | 52 | 3,831 |
| Tennessee | Aug. | | 449 | 1 | | 32 | 346 | | 107 | 123 | | 20 | | 1 | 51 | 8 | 8 | | 22 | 1,168 |
| | 8 Mos. | | 3411 | 10 | 7 | 413 | 2495 | | 764 | 917 | 1 | 255 | | 33 | 124 | 45 | 61 | 5 | 149 | 8,690 |
| Texas | Aug. | | 2761 | 9 | | 168 | 1530 | | 364 | 644 | 4 | 34 | | 17 | 60 | 32 | 26 | | 77 | 5,726 |
| | 8 Mos. | | 19398 | 96 | 6 | 1513 | 12317 | 3 | 2611 | 4175 | 10 | 423 | 7 | 216 | 937 | 230 | 261 | 15 | 454 | 42,672 |
| Utah | Aug. | | 149 | | 1 | 34 | 103 | | 47 | 55 | 2 | 5 | 2 | 1 | 5 | 10 | 3 | | 16 | 433 |
| | 8 Mos. | | 1003 | 9 | 3 | 292 | 877 | 1 | 339 | 468 | 29 | 31 | 19 | 19 | 41 | 53 | 59 | 13 | 78 | 3,334 |
| Vermont | Aug. | | 51 | | | 8 | 39 | | 22 | 23 | | 2 | | | | 10 | 15 | | 22 | 192 |
| | 8 Mos. | 2 | 453 | 3 | 6 | 85 | 403 | | 180 | 287 | | 16 | | 14 | 13 | 81 | 135 | 2 | 104 | 1,784 |
| Virginia | Aug. | | 431 | 3 | 1 | 53 | 364 | 1 | 71 | 152 | | 16 | | 6 | 11 | 11 | 18 | | 35 | 1,173 |
| | 8 Mos. | | 3238 | 19 | 13 | 580 | 2596 | 2 | 575 | 1029 | | 235 | | 60 | 134 | 63 | 200 | 1 | 269 | 9,014 |
| Washington | Aug. | | 305 | 2 | | 65 | 226 | | 101 | 150 | 14 | 4 | | 6 | 2 | 11 | 16 | | 80 | 982 |
| | 8 Mos. | | 2408 | 19 | 26 | 464 | 2148 | 12 | 712 | 1026 | 107 | 58 | 13 | 54 | 36 | 58 | 162 | 1 | 545 | 7,849 |
| West Virginia | Aug. | | 300 | 6 | 4 | 63 | 204 | | 82 | 90 | | 17 | | 11 | 10 | 27 | 46 | 1 | 27 | 888 |
| | 8 Mos. | | 1515 | 20 | 24 | 333 | 1207 | 1 | 422 | 475 | | 62 | | 46 | 53 | 123 | 202 | 1 | 123 | 4,607 |
| Wisconsin | Aug. | | 373 | 2 | 2 | 40 | 273 | | 79 | 173 | | 21 | | 3 | 11 | 4 | 14 | 1 | 49 | 1,045 |
| | 8 Mos. | | 3133 | 37 | 33 | 449 | 2376 | 23 | 641 | 1762 | 1 | 160 | | 57 | 106 | 63 | 145 | 13 | 358 | 9,357 |
| Wyoming | Aug. | | 133 | | | 25 | 109 | | 46 | 48 | 3 | 2 | | 1 | 3 | 6 | 12 | | 8 | 396 |
| | 8 Mos. | | 852 | 5 | | 151 | 685 | | 263 | 359 | 18 | 22 | 1 | 23 | 20 | 52 | 124 | | 50 | 2,623 |
| Total | *August, 1958 | 70 | 23409 | 261 | 139 | 2921 | 18157 | 26 | 5177 | 7331 | 87 | 876 | 28 | 299 | 903 | 656 | 963 | 55 | 2603 | 63,981 |
| Total | *August, 1957 | 55 | 27037 | 304 | 181 | 4020 | 24141 | 33 | 5250 | 6738 | 57 | 1158 | 43 | 501 | 1300 | 590 | 1099 | 65 | 1374 | 75,946 |
| Total | †8 Months, 1958 | 540 | 168997 | 1936 | 1447 | 25080 | 134562 | 264 | 35504 | 57795 | 500 | 7675 | 271 | 2944 | 7826 | 4042 | 8140 | 538 | 16889 | 474,953 |
| Total | †8 Months, 1957 | 463 | 200142 | 2329 | 1861 | 32193 | 184878 | 325 | 42492 | 62892 | 685 | 8956 | 361 | 4006 | 10604 | 4215 | 9935 | 568 | 8737 | 576,442 |

Source: R. L. Polk & Co. * Does not include Oregon. † Does not include Oregon for July or August.

# Triple Service Functions of the 5696 Save You Time and Money

## FOR LIGHT LINE WORK, MAINTENANCE AND GENERAL SERVICE

### 5696 FEATURES

**Mechanically operated derrick readily sets 35' pole**

**24' extension ladder available for overhead line maintenance**

**Galvannealed steel side compartments and understructure**

**Same tread plate floor used in larger line bodies**

**Compartments contain pull-out drawers, bins and thru box**

*Illustrating 24 ft. extension ladder pivoting on rear sheave bar with retaining sockets on rear bumper. Ladder can by used away from vehicle. Stored derrick is raised to work position in seconds by use of winch line and winch. Key locks on all compartment doors.*

### 5696 BENEFITS

**Moderately priced, extremely flexible in its work functions**

**Long service under rugged, every day operating conditions**

**Tool and materials needed for service work are readily accessible**

**Normal functions of light line job provided by winch and folding derrick**

**Backed by 66 years of Creative Engineering Service to the Public Utility Industry**

## CLIP AND MAIL...TODAY

**BODY DIVISION**
**YORK-HOOVER CORPORATION**
YORK, PENNSYLVANIA

*Dept. 3C, York-Hoover Corporation*
*York, Pa.*

*Please send me a copy of Bulletin No. 946 covering your 5696 Combination Unit.*

Name_____

Company_____

Address_____

City and State_____

*INTERNATIONAL DIESEL TRUCKS*

# EARN MORE!

**Count the profits... you're money ahead with "Multi-Million-Mile" models**

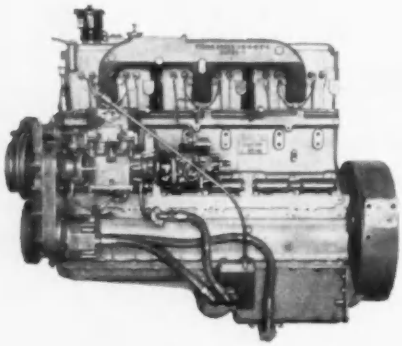
**Premium-built for premium profits,** these weight-saving model DCO-405 "Multi-Million-Mile" diesels haul bigger payloads trip after trip. Stop only long enough to make the turn-around and start off with another payload. After countless hours of "leave-the-key-on" operation, an ever-growing list of prominent fleet operators are finding these custom-built DCO-405's doing the job to perfection . . . often cutting the size of a road fleet 20 percent without affecting service. Four-and six-wheel models with NH series diesel engines, from 55,000 to 76,800 lbs. GCW.

*INTERNATIONAL DIESEL TRUCKS*

# SAVE MORE!

**Count the dollars... you're money ahead with Compact-Design models**

**Save hundreds of dollars** initial cost over any comparable diesel truck in its hauling class. And keep saving till the day you trade. Short 90-inch bumper-to-back-of-cab allows longer trailers and bigger legal payloads in 48 states. Trucks put on more miles (300,000 to 400,000 average before major engine overhaul) combining rugged construction with road-proven NH series diesel engines. What's more, GCW ratings are backed by work-proven components specially designed to meet special operational conditions exactly. Four- and six-wheel models, including sleepers, from 68,000 to 76,000 lbs. GCW.

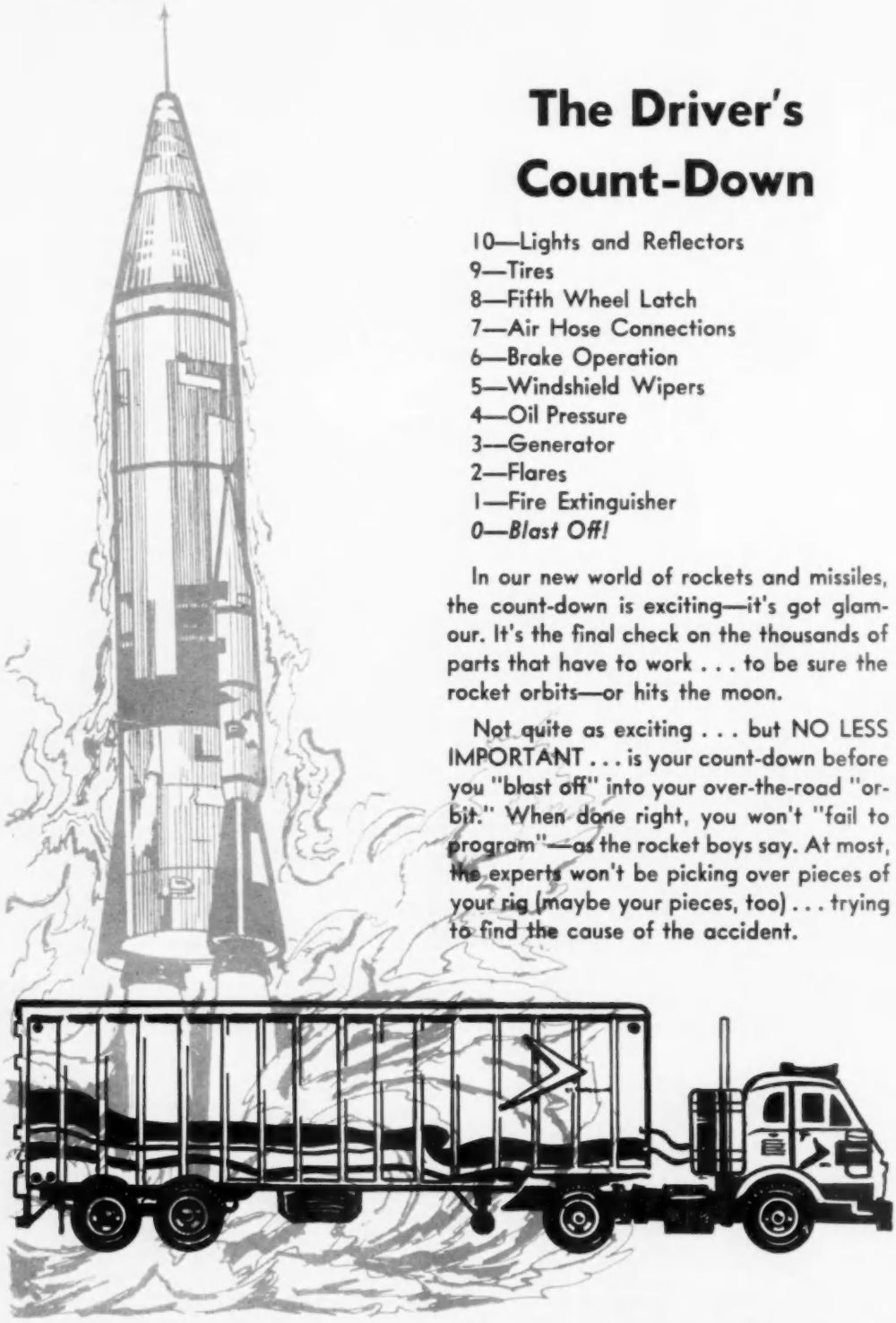


**Maximum usable horsepower** for *your* loads and roads. Full range of power for both models with road-proven low stress Cummins NH series 180, 195 or 220 hp. engines that offer maximum usable horsepower at 2100 rpm. See your INTERNATIONAL Dealer for complete details.

# INTERNATIONAL TRUCKS
## cost least to own!

INTERNATIONAL HARVESTER COMPANY, CHICAGO • Motor Trucks • Crawler Tractors • Construction Equipment • McCormick® Farm Equipment and Farmall® Tractors

# CCJ BULLETIN BOARD



## The Driver's Count-Down

10—Lights and Reflectors
9—Tires
8—Fifth Wheel Latch
7—Air Hose Connections
6—Brake Operation
5—Windshield Wipers
4—Oil Pressure
3—Generator
2—Flares
1—Fire Extinguisher
*0—Blast Off!*

In our new world of rockets and missiles, the count-down is exciting—it's got glamour. It's the final check on the thousands of parts that have to work . . . to be sure the rocket orbits—or hits the moon.

Not quite as exciting . . . but NO LESS IMPORTANT . . . is your count-down before you "blast off" into your over-the-road "orbit." When done right, you won't "fail to program"—as the rocket boys say. At most, the experts won't be picking over pieces of your rig (maybe your pieces, too) . . . trying to find the cause of the accident.

CLIP AND POST ON YOUR OWN BULLETIN BOARD —— REPRINTS AVAILABLE AT NOMINAL COST

# For Engine Rebuilding... MODERN SUNNEN EQUIPMENT PAYS OFF...

***Because it . . .***

- ✓ **Puts Vehicles Back In Service Faster**
- ✓ **Keeps Them In Service Longer**
- ✓ **Gets Better Performance At Lower Operating Cost Per Mile**

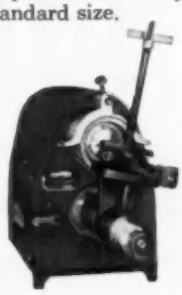
Sunnen shop equipment will give you these results because you get "factory-accurate" work that is controlled and *measured* to be sure you get the exact size you want.

## FOR PIN FITTING AND ROD RECONDITIONING

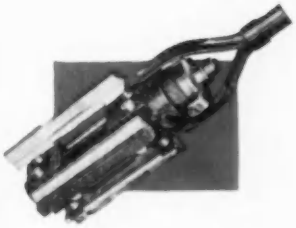
Sunnen Honing Machines have no equal for producing exact clearance or interference pin fits. There's no guesswork—every hole is accurately gaged, and held within a "tenth."

Sunnen Rod Reconditioning Mandrels for honing the crank-pin end of rods—combined with the Sunnen Cap and Rod Grinder—enable you to save real money by reconditioning rods quickly and accurately to original standard size.

**Sunnen Heavy-Duty Honing Machine**
Model LBB-1299—Hones all bushings and bores from .370" to 3.300" in diameter including pistons, rods, spindle bodies, hydraulic brake cylinders, steering sector housings and air compressor cylinders.



**Sunnen Cap and Rod Grinder**
Model CRG-500—for precision grinding cap and rod faces at the parting line. Machine includes diamond dresser and rod assembly fixture.



## FOR CYLINDER HONING

Sunnen Cylinder Grinders produce an ideal surface finish that permits rings to "seat" quickly. Use them for complete reconditioning, for finishing after boring, or for partial reconditioning on "ring" jobs. 4 models handle diameters from 1¾" to 14½".

## FOR CRANKSHAFT GRINDING SERVICE

Sunnen Portable Crankshaft Grinder grinds crank pins right in the engine. Alignment is positively maintained and accuracy can be held within .001". Handles diameters from ¾" to 7".

***We'll be glad to send complete information or demonstrate these and other Sunnen products right in your shop. Write today.***

923

**SUNNEN PRODUCTS COMPANY** 7407 Manchester Ave., St. Louis 11, Mo.
Canadian Factory: Chatham, Ontario

***For Your Protection Insist On Sunnen Measured Pin Fits***

# NEW ARMSTRONG TIRE

# ROLLS 114,000 MI. BEFORE FIRST RECAP!

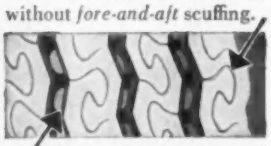
**Rolling doesn't wear off rubber — scuffing does. Armstrong's new design checks scuffing, gives phenomenal mileage.**

"114,000 miles over rugged Maine roads — and still good for a lot more!" That's typical of letters in our files testifying to the amazing mileage Armstrong's new Miracle S-D Tires run up — because they "kiss the road".

Tire engineers have long known that so long as a tire *rolls* freely, tread wear is negligible. But when design causes rubber to be dragged, even a fraction of an inch, scuffing causes rapid wear.

Miracle S-D Armstrong Tires lick scuffing two exclusive, patented ways. Interlocking sipes let the tread *kiss* the road hello and goodbye. And intratread bumpers (see diagram) permit deep-tread ribs that *can't* weave. Traction goes sharply UP; scuffing, slipping and skidding go sharply DOWN. Run your own test on these new tires that "kiss the road" — and revise your ideas of how long over-the-road tires can last.

Exclusive interlocking sipes grip road in all direction, yet "kiss" the road and leave it without *fore-and-aft* scuffing.



Exclusive intratread bumpers prevent deep tread from weaving under load or braking pressure, greatly reduce *side-to-side* scuffing.

## ARMSTRONG *MIRACLE S-D* TRUCK TIRES

**The Armstrong Rubber Co., Home Office, West Haven, Conn.**

## GMC's 48-in. BBC Tractor Has Air Springs All Around

GMC OFFERS two 48-in. bumper-to-back-of-cab lightweight tractors. New almost from the ground up, features include fabricated frames, air springs on all axles, independent front wheel suspension, aluminum tilt cabs. (All previous models will be continued.)

Model No. DLR-8000 (shown above) with front axle set back 50 in. is rated for 60,000 lb GCW. Model No. DFR-8000 with 28-in. axle placement rates up to 76,000 lb GCW.

GMC says they're light enough to carry from 699 to 2097 lb more payload than conventional models. DLR-8000 tips scale at 9987 lb including fifth wheel, 100 gal of fuel, and driver. It's now in production. DFR-8000 is expected to be lighter, goes into production after first of the year.

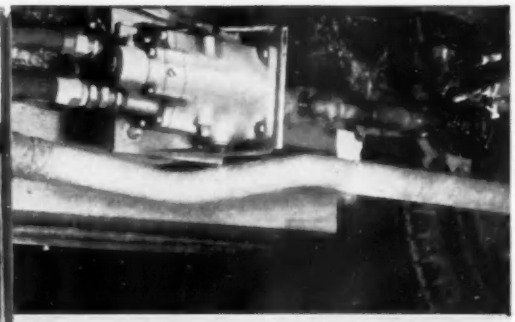
New frame cuts weight up to 300 lb

New frame design of SAE 950 high tensile steel cuts weight up to 300 lb compared to conventional pressed channel-type construction, says GMC. Deep welded I-beam type construction utilizes 3/16-in. top flanges welded to light steel webs for strength and rigidity.

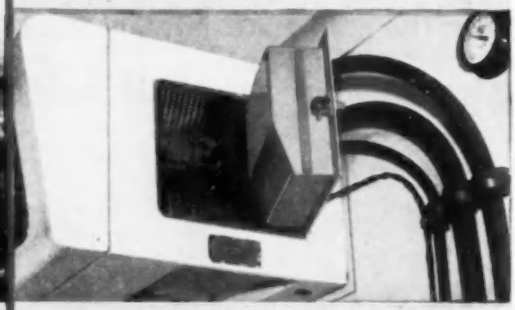
(TURN TO PAGE 65, PLEASE)

SEE 1 2 3 4 5 years-ahead trailer features ON PAGES 69 thru 72

Part of the Fried & Reineman fleet, all of which are equipped with Sundstrand hydraulic drives providing power for the over-the-cab refrigeration units.



Power take-off mounted pump is heart of Sundstrand drive system, delivers constant flow of oil despite wide variations in truck speed.



Closeup of refrigeration unit shows hydraulic motor that drives refrigeration unit compressor. Drive is quiet, dependable, and free of maintenance.

# MAINTENANCE COSTS CUT 75%

## by standardization on Sundstrand Hydraulic truck refrigeration drives

Dependability and economy of operations, as well as a 75% reduction in maintenance requirements, are benefits being realized currently by Fried & Reineman Packing Company, Pittsburgh. They are the result of standardizing on Sundstrand constant speed truck refrigeration drives for the company's entire fleet of 23 trucks. The company, one of the largest independent meat packers in the East, started with four Sundstrand-powered refrigeration units and completed its conversion of all 23 trucks six months later.

"We've had these units in some of our trucks as long as a year," says Plant Superintendent Karl Gabosh, "and we've had no maintenance problem. They're performing exceptionally well, so that if we need additional units in the future, we would reorder without hesitation." Standby operations are equally simple with the plant power supply used to drive an electric motor that turns the refrigeration unit compressor.

SUNDSTRAND

## SUNDSTRAND HYDRAULIC DIVISION

**SUNDSTRAND MACHINE TOOL CO., ROCKFORD, ILLINOIS, U. S. A.**

Eastern Sales Office: 89 Summit Ave., Summit, N. J.

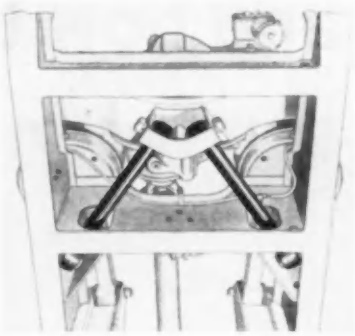
AIRCRAFT AND INDUSTRIAL HYDRAULIC TRANSMISSIONS, PUMPS, MOTORS, AND VALVES • OIL BURNER PUMPS • AIR SANDERS • LATHES, MILLING, BROACHING AND SPECIAL MACHINES • BROACHING TOOLS • MAGNETIC CHUCKS

## GMC's 48-in. Tractor

Continued from Page 63

Air springs on front and rear axles have single convolution-type air cylinder. It eliminates need for additional air reservoir. Rear axle has upper and lower pairs of radius arms to give stability.

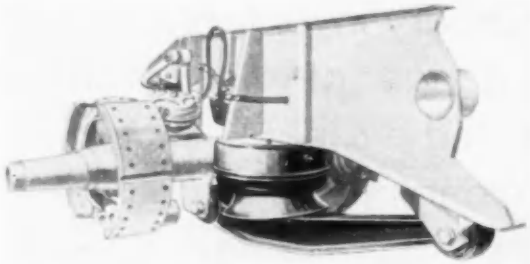
Independent front wheel suspension rated at 11,000 lb eliminates front axle. GMC says the assembly gives easier steering and handling, reduces driver fatigue.



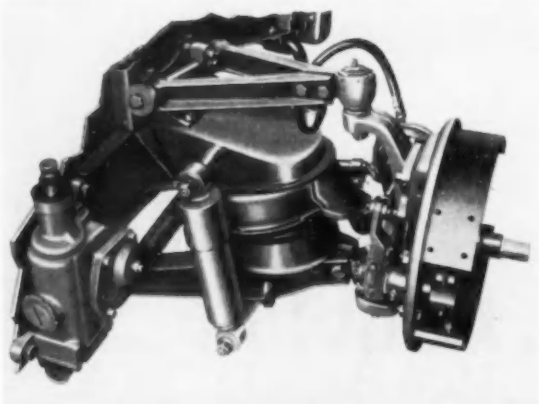
Upper radius rods cut lateral sway

Aluminum tilt cab has fiber glass reinforced fenders, head lamp panels and grille. It tilts manually being counterbalanced by torsion bar-type springs.

Model No. DLR-8000 is available with a new 18,000 lb, spiral bevel, two-speed rear axle and 5-speed overdrive transmission. Addition of an aluminum sleeper compartment increases bumper-to-back-of-cab distance to 72 in., leaves front and rear axle loadings virtually unchanged.



Both axles have air springs. Rear suspension detail is shown above, independent front wheel suspension is below



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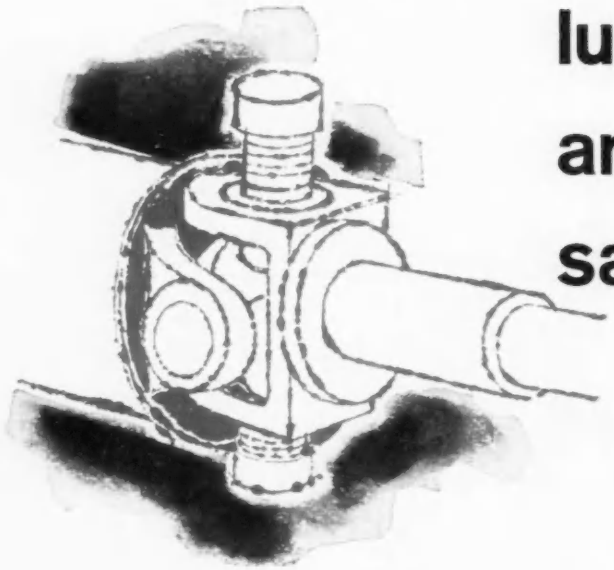
custom design opportunities in trailers

ON

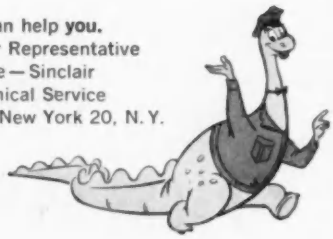
PAGES 69 thru 72

# Universals... lubrication... and how to save money



Sinclair Litholine® multi-purpose grease replaces 3 different ordinary greases—chassis, wheel bearing, water pump. It therefore cuts unnecessary inventory costs. Furthermore, it eliminates the danger of misapplication. This superior lubricant has earned a reputation for lengthening lube intervals—prolonging life of universals and other vital parts. Change to Litholine, now. And when management asks how you've cut costs, tell them you've switched to Sinclair—and show them the results.

Find out how Litholine can help **you.** Call your nearest Sinclair Representative or write for free literature—Sinclair Refining Company, Technical Service Division, 600 Fifth Ave., New York 20, N.Y. There's no obligation.



**SINCLAIR**
**Litholine®**
**Multi-Purpose Grease**

## New Multi-Stop Truck Has Unitized Body

MONTPELIER (Ohio) Mfg. Co. offers a new lightweight, small multi-stop delivery truck. It's rated at 6000 lb GVW, has nearly 250 cu ft of load space. It features . . . .

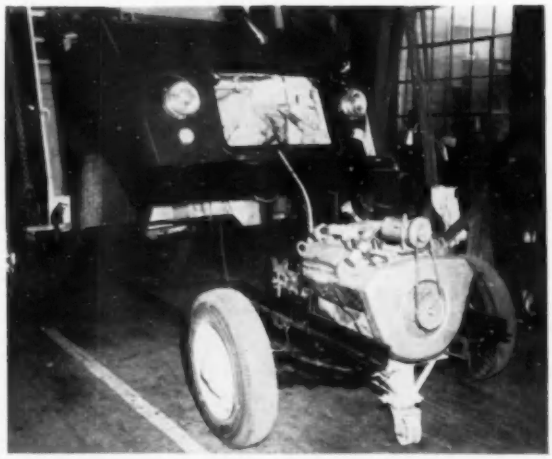
- Unitized construction.
- Fiber glass reinforced plastic side panels and roof.
- Engine and front axle removeable as a unit.

Body floor, chassis supporting components, body skirting, integral rub rails and wheelhouses are welded together. Wheelbase is 104 in.

**Roof assembly is one-piece,** bolts on. It is of fiberglass reinforced plastic with hardwood members integrated into the plastic.

Body side panels of similar plastic construction are riveted to unitized chassis and frame. Entrance to driver's compartment is low—about 14 in. from the ground. Compartment has 80-in. headroom.

**Front axle assembly,** transmission and engine are carried on a small "bogie" frame. Frame can be removed as unit (see photo). This permits quick replacement, gets the truck back on the street plus speeding repair in the shop.



Power plants for the new vehicle include both air-cooled and water-cooled 4-cyl engines. They're used with heavy-duty clutch and 3-speed synchromesh transmission.


SEE

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individual truck trailer components that You can specify ON

PAGES 69 thru 72

# Why do users say that Tropic-Aire Reefers provide

## *"...the service that we in this industry desire and need"?*

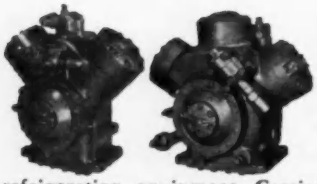
That statement is quoted directly from a letter written by Mr. Rodney Tetrault, president of Indiana Refrigerated Lines, Inc., in reference to the sixteen Tropic-Aire refrigeration units presently operating with his fleet (with mention that there will soon be more).

*Why* are outstanding fleet owners and operators, such as Indiana Refrigerated Lines, R. C. Motor Lines, Foremost Dairies, Safeway Stores, and Wabash Railway switching to Tropic-Aire refrigeration equipment for tough, long-haul jobs? Because only Tropic-Aire offers the *performance factors* essential to profitable, economical refrigerated transport: *power, overload capacity, absolute dependability, low operating costs,* and *your choice of power plants and fuels.*

These performance factors are not resultant of accidents. They are carefully planned developments designed to meet a need. And here are the reasons for Tropic-Aire's superiority.

### ENGINES

There are three specifically-designed powerplants basic to Tropic-Aire refrigeration units: the Continental N-62 (gasoline or LP), Continental Y-91 (gasoline or LP), and Continental ZD-129 (diesel). All are 4-cylinder, liquid-cooled engines, varying in horsepower according to the capacity of the refrigeration system. All Tropic-Aire units employ direct engine-compressor drive. For compactness, both compressor and condenser are mounted inside the engine frame. Condenser is cooled by 4000 cfm propeller type fan.



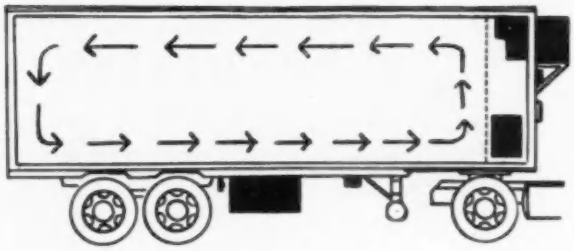
### COMPRESSORS

Depending upon the refrigeration capacity of the unit, two types of compressors are employed in Tropic-Aire refrigeration equipment. Carrier Model 5F20 is a two-cylinder compressor, capable of producing 5 tons of refrigeration. Carrier Model 5F30 is a 3-cylinder unit, designed for 8 tons. Both types are fabricated of rugged aluminum alloy, specifically for transport purposes. All Tropic-Aire compressors are force lubricated. Five-ton system requires 18 lb. Freon 12; 8-ton system requires 22 lb.

### CONTROL PANEL

The control panel is waterproof and dustproof; it is ordinarily mounted in a position on the trailer nose where it is visible at all times. Lights indicate cooling, heating, defrosting, oil pressure and generator operation. Gauges show fuel level, engine temperature, and temperature of trailer interior. A three-way switch controls cargo heating and cooling; single switches control starting, lighting and manual defrost. (Defrosting may be controlled either manually or automatically.)

### CONSTANT AIR CIRCULATION



Constant circulation of refrigerated air above, below and on all sides of the cargo is another factor in providing an ideal refrigeration service. In operation, whether the refrigeration system is idling or at full cooling, the evaporator blowers, inside the trailer housing, continuously circulate air — to assure that the cargo remains in premium condition, prevents edge-thawing of frozen cargoes, and makes certain that fresh fruits and vegetables retain their crispness.

### STANDARD COMPONENTS

The fact that most Tropic-Aire refrigeration components are standard makes possible quick, easy repair or replacement, if necessary. Nearly any part of either powerplant or refrigeration system may be located quickly, wherever such automotive parts are sold (many Continental Motors sales and service outlets carry supplies of parts). For further details on parts, see the Tropic-Aire warranty.

**Let your Tropic-Aire field representative give you full details and information about Tropic-Aire refrigeration . . . America's newest and finest!**

ANOTHER PRODUCT OF

McGRAW EDISON

**McGRAW-EDISON CO.**
TROPIC-AIRE DIVISION
5201 West 65th Street
Chicago 38, Illinois

TROPIC-AIRE Carrier

MOBILE REFRIGERATION
AIR CONDITIONING

"Tropic-Aire" is a trademark of McGraw-Edison Co., Chicago. ©1958 by McGraw-Edison Co.

**ANNOUNCING** another significant advance in truck trailer transportation

# TRAILMOBILE

**NEW** opportunities in custom design

**NEW** and improved components

**NEW** advantages for operators

# NEW "years ahead"

**CID SERIES '60**

CID Series "60" is a feature-studded new edition of the original and revolutionary design concept introduced by Trailmobile in 1954. CID (Customer Individualized Design) gives you significant custom-design opportunities by offering a wide choice of standardized interchangeable components in place of factory standardized "models." And by choosing from these components according to your needs, you design the ideal trailer for your operations.

Now, Trailmobile brings you CID Series "60"—with new and improved components . . . new "years ahead" features. To you this means even more attractive opportunities in custom design . . . more opportunities to improve the performance and revenue capacity of your trailers.

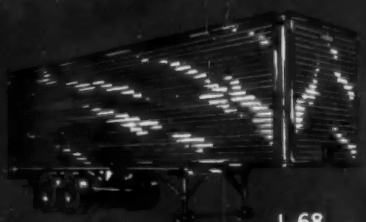
## NEW WIRING SYSTEM

The only wiring system that can be serviced with the trailer fully loaded and all doors locked—now brings you another big advantage. A new connector case provides both ATA 7-way and 6-way plugs, PLUS new quick-connecting terminals to simplify interchange when tractor and trailer electrical connections do not match. There are no nuts or small parts to lose—no tools required. And the entire system is protected by automatic-reset circuit breakers.

## NEW TANDEM

Here is the matchless Trailmobile tandem in a brand new model that is lighter by hundreds of pounds. Newly designed rocker beams, a new, more stable 9-leave spring, and direct mounting of tandem to sub frame substantially reduce weight without sacrifice of strength. Otherwise, this is the same basic, uniquely simple design that has earned a reputation for dependable performance and low, low maintenance. Only two moving parts!

## ...IN SIX BASIC CUSTOM



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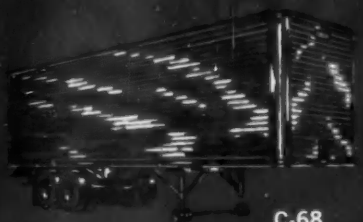

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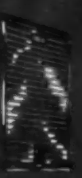

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# PERFORMANCE FEATURES

## NEW QUARTER PANEL

A newly designed quarter panel allows the roof fastenings to be moved to the outside of the trailer to eliminate the problem of leakage at fastening points. It also permits the roof sheets to be riveted. The quarter panel itself is a husky aluminum extrusion which is stretch formed at the corners to provide a top nose rail. This achieves leakproof fastening at the front as well as the sides.

## NEW LO-LEVEL UNDERFRAME

This is a new and still stronger version of the pace-setting Trailmobile underframe that incorporates the 2¾ inch grid type upper fifth wheel. New features include a strong extruded aluminum floor section between landing gear and upper fifth wheel and a choice of newly designed steel or aluminum cross members on 12" centers. Result is more than adequate strength for maximum fork lift loads.

## NEW LANDING GEAR

Here is a new unitized design that brings you strength, light weight and perfect alignment in an easier-to-operate prop. A full 17 inch travel assures proper coupling under any ground condition. In addition, an integrally mounted two-speed gear box provides a positive lock to prevent gears from disengaging while cranking.

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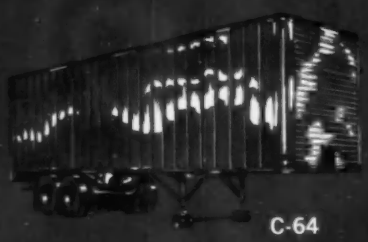

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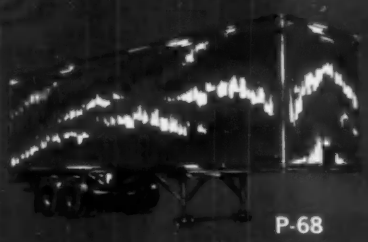

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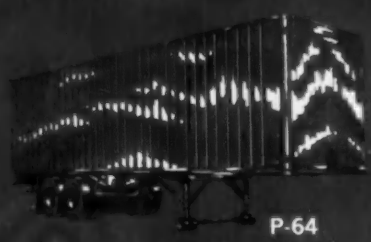

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# EACH BUILT TO INDIVIDUAL NEEDS

## ...from this wide array of CID SERIES '60 components

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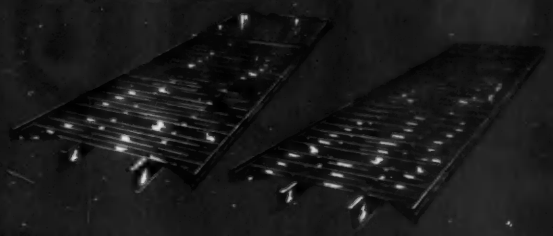

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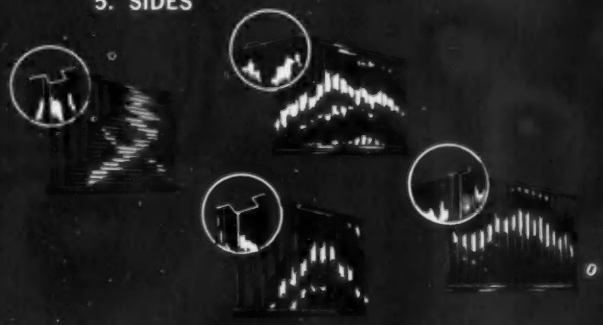

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7. NOSE CAPS

8. TOPS

9. LININGS

**CID '60**

**TRAILMOBILE INC.**

Cincinnati 9, Ohio • Springfield, Mo.
Longview, Texas • Berkeley 10, Calif.

# who's got what you want?

*An Index of Products*

*Advertised in this Issue*

Use this section first when you want to know who makes a given item. It's a handy guide to detailed information about the hundreds of products advertised in this issue. By turning to the pages indicated, you can generally find detailed descriptions—frequently illustrations—of the products you're after.

This index does not cover all products manufactured by the companies advertising in this issue. Every effort has been made to include all products specifically advertised. Listings in this section are not a part of the advertisers' contracts—they are here solely as a help to you as a fleetman. No allowance is made for errors or omissions. General listings begin on page 81.


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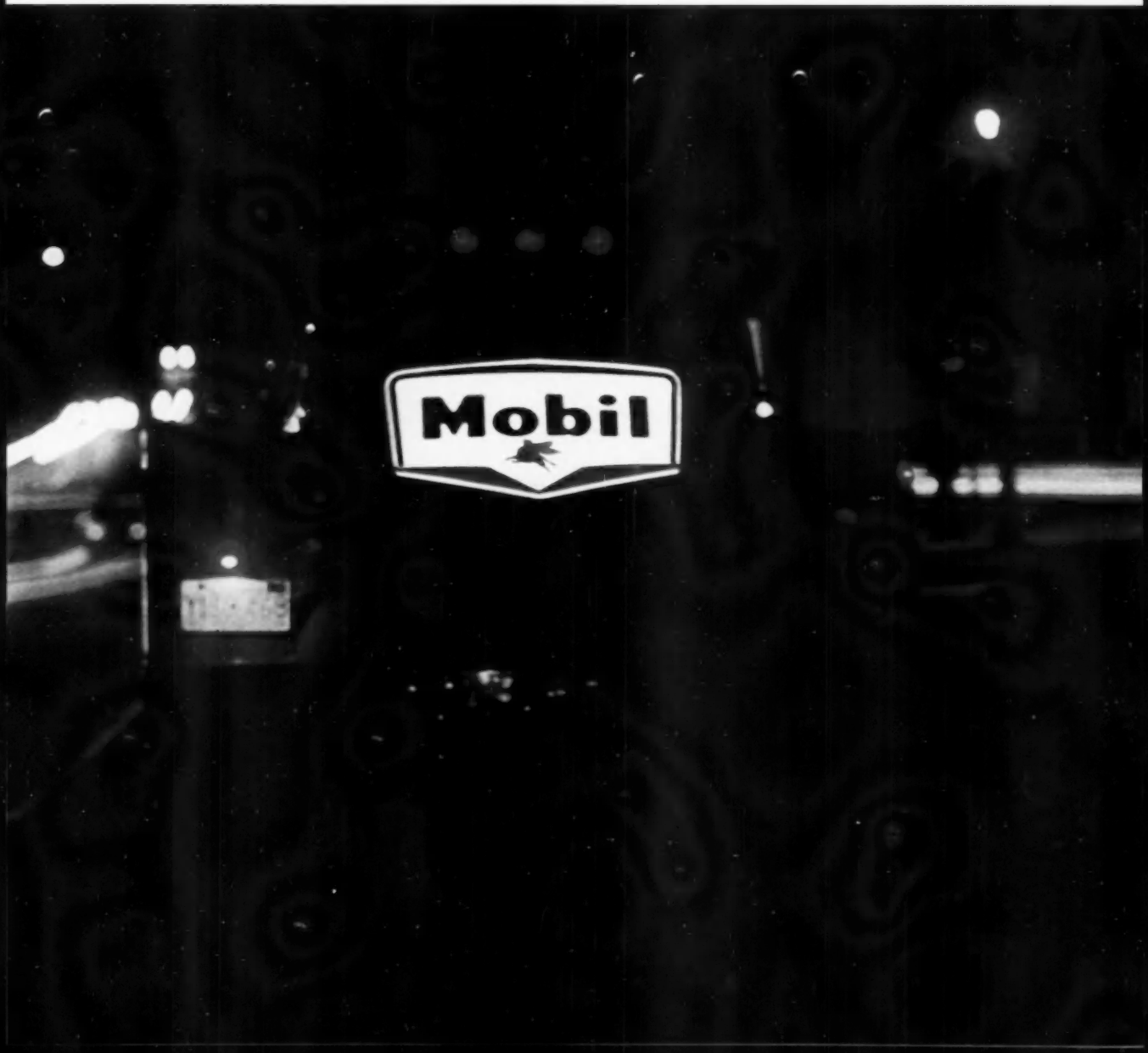
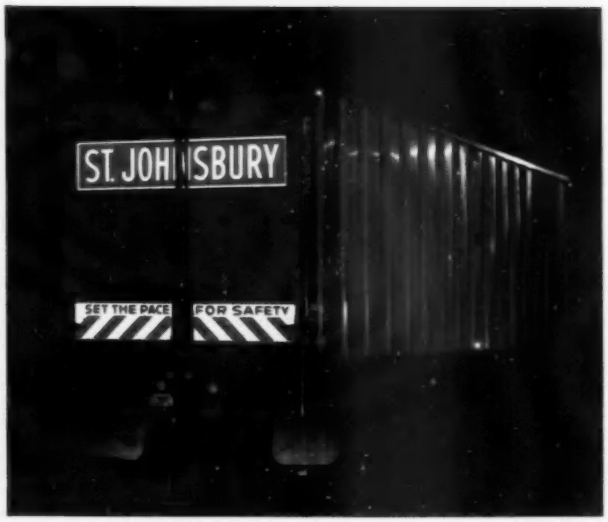
# BOLD AND BRIGHT BY DAY OR NIGHT

reflective color is the modern way to better fleet markings

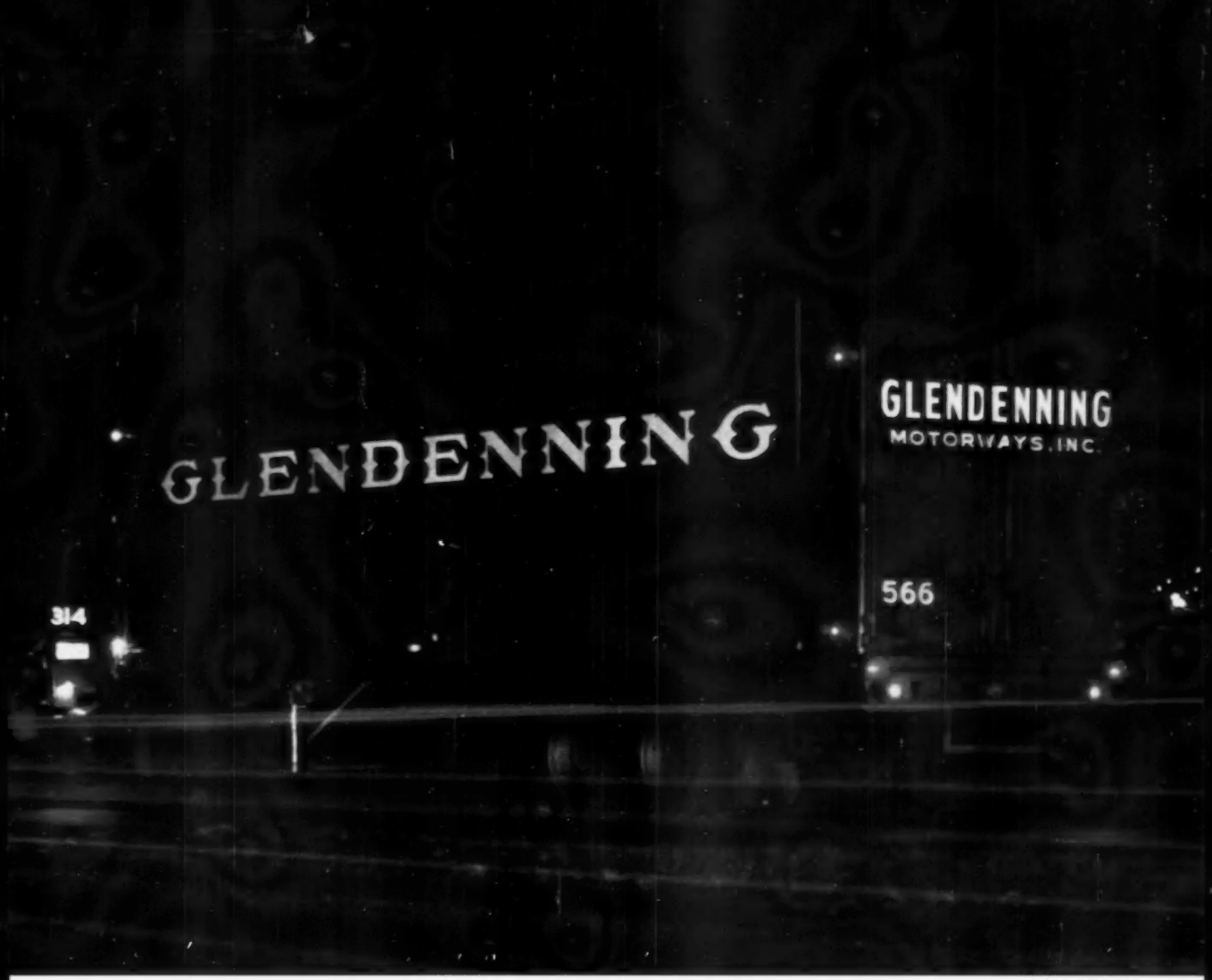


# .... the bold bright look is

**MANUFACTURERS' FLEETS** become rolling billboards, advertising their products 24 hours a day in bright "Scotchlite" Reflective Sheeting. You show name, trademark or package in true, vivid color wherever your trucks roll.

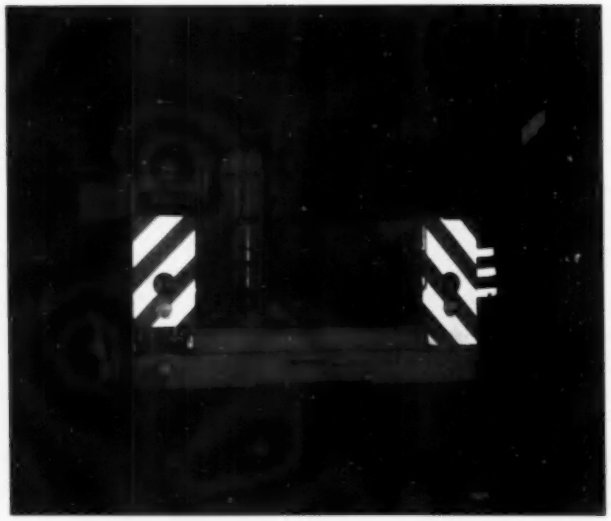



**COMMON CARRIER FLEET** operators report big dollar savings in operational costs, due to speed and economy in application and the rugged on-the-road durability of striking markings of colorful "Scotchlite" Reflective Sheeting.





# "Scotchlite" Reflective Sheeting



**PUBLIC UTILITY FLEETS** flash a built-in warning to approaching motorists. The vivid reflective color of "Scotchlite" Sheeting helps promote safety on the road anywhere in any weather at any hour. It's good public relations.

## the modern marking material for cost-conscious operators who are proud of their fleets

They're bright at night. And all day, too. Because these modern markings are *reflective*, they can be seen 24 hours a day in any kind of weather. You get increased safety for your fleet. You get 24-hour-a-day advertising for your service. You get public relations and prestige values wherever your trucks roll. And you get modern economy, too, from the ease of initial application to the long on-the-road life of these rugged markings. Get modern markings and throw away your paint cans. See your 3M Representative soon and get the facts on how you save money with the bold, bright reflective color of "Scotchlite" Sheeting.

REG. U. S. PAT. OFF.

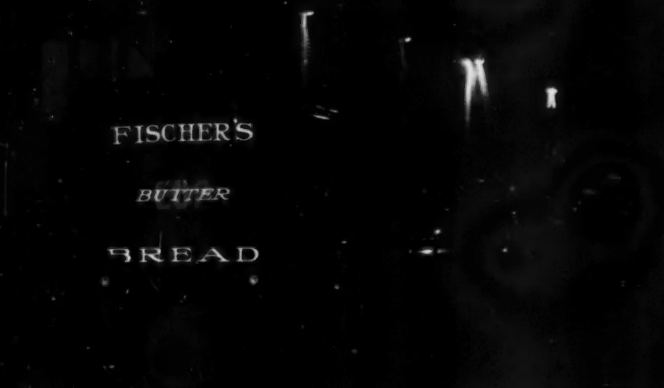
**SCOTCHLITE**

BRAND

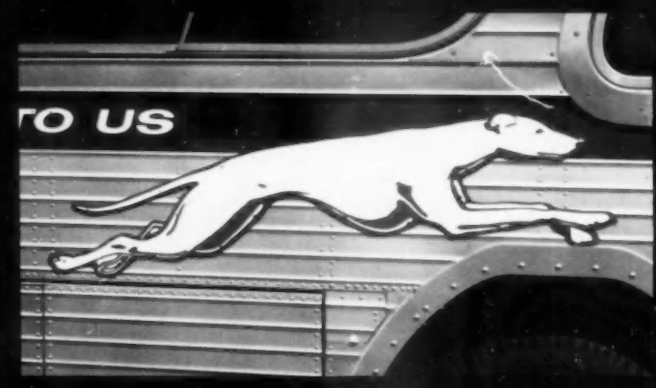
REFLECTIVE SHEETING

**YOU CHOOSE THE PACKAGE.** From 6 marking packages, you select the one that meets your needs. Your 3M Representative will be glad to help. Pick from 1) front only, 2) rear-end only, 3) sides and front, 4) sides and rear-end, 5) sides only, or 6) the full package, front, sides and rear-end.

**DAY AND NIGHT VISIBILITY** is a built-in advantage of "Scotchlite" Sheeting. These distinctive markings are easy to see by day . . . and even easier to see by night. When caught by an approaching headlight beam, they flash fast identification of your units and give you greater safety.




**APPLICATION IS EASY.** Strip off the backing to expose adhesive. Line emblem up in position. Then apply pressure. That's all there is to it. Larger emblems are quickly applied in sections. You get big dollar savings in labor and you end costly truck downtime for painting and repainting.




**DURABILITY** of these rugged markings has been proved by performance time and time again. Take Greyhound Lines, for example. These markings of "Scotchlite" Reflective Sheeting are still in good shape after 5 full years of contributing to safer operations in any weather and at any hour.

## You save money with markings of "Scotchlite" Reflective Sheeting

You save money on every unit because this easy-to-apply material cuts marking time and manpower expense. The longer life of colorful "Scotchlite" Reflective Sheeting means further savings and less unit downtime. Through bright all-weather visibility of these markings you save, too, in terms of safety on the road . . . both for your own units and for other drivers. The 24-hour-a-day advertising and public relations value is a built-in benefit.

See your 3M Representative soon for the full story on the bold bright look of "Scotchlite" Reflective Sheeting. Or write for further details today to: 3M Company, Dept. KC-68, St. Paul 6, Minn.

REG. U. S. PAT. OFF.

**SCOTCHLITE**

BRAND

**REFLECTIVE SHEETING**

PRODUCT OF 3M COMPANY RESEARCH

The terms 3M and SCOTCHLITE are registered trademarks of Minnesota Mining & Mfg. Co., St. Paul 6, Minnesota. General Export: 99 Park Ave., New York 16, N. Y. In Canada: P. O. Box 757, London, Ontario.

**MINNESOTA MINING AND MANUFACTURING COMPANY . . . where RESEARCH IS THE KEY TO TOMORROW**

*Commercial Car Journal's*

# product directory

Listings in this directory are limited generally to national distributors. For convenience—to save time in an emergency, you should keep a list of local sources. Their addresses easily can be obtained by writing the manufacturers. (Don't forget: Most vehicle manufacturers stock a line of parts for their vehicles.)

Advertisements in this issue often give detailed information on products you're interested in. Use the handy guide beginning on page 73 to locate them.

As in past issues, thousands of changes were made to make this "1959 model" up-to-date and easy-to-use. Usually products are listed by their basic name—ADJUSTERS, Brake. Where a product is better known by a compound name, it is listed that way—AIR CONDITIONERS, Cab. Listings received too-late-to-classify appear at the end of the directory. As always if you can't find what you want, just drop us a line. We'll be glad to help.

**ABRASIVES, See Sandpaper; Discs, Abrasive; Wheels, Grinding**
**ABSORBENTS, See Cleaners, Floor**
**ACCELEROMETERS, See Meters, Brake Testing**
**ACCOUNTING MACHINES, See Record Machines, Accounting**

## ACCOUNTING SYSTEMS

The Ideal System Co., 2437 West Pico Blvd., Los Angeles 6, Cal.

**ACETYLENE, See Gas, Acetylene**
**ADDITIVES, CRANKCASE, See Compounds, Crankcase Sludge Removing**
**ALTERNATORS, See Generators**

## ADJUSTERS, Brake

Brakemaster Corp., 4603 W. Roosevelt Rd., Chicago 50, Ill.

## ADJUSTERS, Tire Chain

American Chain Div. of American Chain & Cable Co., 454 E. Princess St., York, Pa.
Campbell Chain Co., York, Pa.
Crown Products Co., 5722 S. 77th St., Ralston, Nebr.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Grayson Tool Co., 1412 W. 2nd St., Hastings, Neb.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Nauman Mfg. Corp., R. F., 525 Michigan Ave., Buffalo 3, N. Y.
Peerless Chain Co., Front & Walnut Sts., Winona, Minn.
Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
Round Woodhouse Chain & Mfg. Co., Third St., Trenton 7, N. J.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Tingley Rubber Corp., 903 Ross St., Rahway, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill.
Wickwire Spencer Steel, Div. of Colorado Fuel & Iron Co., 575 Madison Ave., N. Y. 22, N. Y.

**AIR CLEANERS, See Cleaners, Air**
**AIR COMPRESSORS, See Compressors, Air**

## AIR CONDITIONERS

Ellis & Watts Products Co., P. O. Box 23, Cincinnati 36, Ohio. (Body.)
Era Tool and Engineering Co., 9240 Belmont Ave., Franklin Park, Ill.
Frigikar Corp., 1602 Cochran, Dallas, Texas.
Frigiquip Corp., 3724 North May Ave., P. O. Box 7205, Oklahoma City, Okla.
Kysor Heater Co., Cadillac, Mich.
National Gas Equipment Co., P. O. Box 122, Denison, Texas.
Novi Equipment Co., Novi, Mich.

## AIR-CONDITIONERS, Cab

Bonzer-Western Corp., 3055 E. 12th St., Los Angeles 23, Calif.
Capitol Refrigeration & Mfg. Co., 3922 Kullock Dr., Dallas 16, Tex.
Frigikar Corp., 1602 Cochran St., Dallas, Texas.
G & S Mfg. Co., 2824 E. Washington St., Phoenix, Ariz.
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Kysor Heater Co., Haynes St., Cadillac, Mich.
Metal Products Engineering Inc., 4000 Long Beach Ave., Los Angeles 58, Calif.
Onan & Sons, Inc., D. W., University Ave. S. E. at 25th St., Minneapolis 14, Minn.
Spitzka Mfg. Co., 235 Colfax St., North Sacramento, Calif.
Thermador Electrical Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif.

## AIR CONDITIONING UNITS, Truck, Bus and Trailer

**(See also Coolers, Truck, Bus and Trailer)**

ARA Mfg. Co., 1041 Foch St., Ft. Worth, Tex.
Airtemp Div., Chrysler Corp., 1610 Webster St., Dayton 1, Ohio.
Eaton Mfg. Co., Heater Div., E. 65th St. & Central Ave., Cleveland, Ohio.
Ellis & Watts Products, Inc., P. O. Box 23, Cincinnati 36, Ohio.
Forston Co., 1400 Conti St., Houston 2, Tex.
Frigidaire Div. General Motors Corp., 300 Taylor St., Dayton, Ohio.
Frigikar Corp., 1711 Cochran St., Dallas, Tex.
Keco Industries, Inc., 2438 Beekman St., Cincinnati 14, Ohio.
McGrow Edison Co., Clark Div., 5201 W. 65th St., Chicago 38, Ill.
Sutton Corp., O. A., 1812 West 2nd St., Wichita 1, Kans.
Thermo King Corp., 44 S. 12th St., Minneapolis 3, Minn. (Bus.)

## AIR COOLERS

Bonzer-Western Corp., 3055 East 12th St., Los Angeles 23, Calif.
G & S Mfg. Co., 2824 East Washington St., Phoenix, Ariz.
Metal Products Engineering, Inc., 4000 Long Beach Ave., Los Angeles 58, Calif.
Spitzka Mfg. Co., 235 Cedar St., North Sacramento, Calif.

**ALARMS, CARBON MONOXIDE, See Indicators, Carbon Monoxide**

## ALARMS, Truck and Cargo Protection

Auto-Matic Alarm Systems, 2311 Indiana Ave., Chicago, Ill.
Babaco Alarm Systems, Inc., 733 Washington St., New York, N. Y.
Certified Burglar Alarm Systems, 1418 W. Augusta Blvd., Chicago, Ill.
Ever-Guard Automatic Burglar Alarm Co., Inc., 404 W. 53rd St., New York, N. Y.
The Tire Mart, Inc., National Fleet Service, 419 Fourth Ave., New York 16, N. Y. (Tire Guard.)
Victor Burglar Alarm Co., Inc., Clifton, N. J.

**ALIGNERS, Wheel, See Gages, Wheel and Axle Aligning**

## ALUMINUM, Sheet, Rod, Ingot, Shapes

Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa.
American Nickeloid Co., Peru, Ill. (Nickel and chrome plated aluminum, in sheets.)
Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelphia 29, Pa. (Rod, sheet, strip, bar and wire.)
Empire Metal Co., 820 E. Water St., Syracuse 3, N. Y.
Fairmont Aluminum Co., Fairmont, W. Va. (Sheet, coil, circles and plate.)
Federated Metals Div. American Smelting & Refining Co., 120 Broadway, New York 5, N. Y. (Ingot.)
Hamden Steel & Aluminum Co., State & Edmund Sts., New Haven, Conn. (Ingot.)
Harvey Aluminum Co., 19200 S. Weston Ave., Tarrance, Calif. (Rod and wire.)
Hunter Douglas Aluminum Corp., 3016 Kansas Ave., Riverside, Calif. (Strip.)

# ammeters to axle suspension units

### ALUMINUM—continued

**Kaiser Aluminum & Chemical Corp., 1924 Broadway, Oakland 12, Calif. (Sheet, plate, coils, circles, billets, pig, ingot, rod, bar and wire.)**
**Niagara Falls Smelting & Refining Div., Continental Copper & Steel Industries Inc., 2204 Elmwood Ave., Buffalo 23, N. Y.**
Olin Mathieson Chemiral Corp., Aluminlm Div., 400 Park Ave., New York, N. Y.
**Precision Extrusions, 720 E. Green Ave., Bensenville, Ill. (Extruded shapes, rod, bar and tubing.)**
Revere Copper & Brass Inl., 230 Park Ave., N. Y. 17, N. Y.
**Reynolds Metals Co., 3rd & Grace Sts., Richmond 19, Va. (Sheet plate, wire rod bar, ingot and pig.)**
Scovill Mfg. Co., 99 Mill St., Waterbury 20, Conn.

### AMMETERS, Instrument Board

AC, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Hoyt Electrical Instrument Works Inc., 292 Main St., Cambridge 42, Mass. (Sole distributors, Burton-Rogers Co., 292 Main St., Cambridge 42, Mass.)
**King-Seeley Corp., 315 S. First St., Ann Arbor, Mich.**
**Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.**
**Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill.**
**Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.**
**United States Gauge Div. of American Machine and Metals, Inc., Clymer Ave., Sellersville, Pa.**
Weston Instruments, Div. of Daystrom Inc., 614 Freylinghuysen Ave., Newark 12, N. J.

### ANALYZERS, Combustion

**Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.**
Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa.
Cambridge Instrument Co., Inc., 3732 Grand **Central Terminal Bldg., N. Y. 17, N. Y.**
**Commercial Research Div., George L. Nankervis Co., 15300 Fullerton St., Detroit 21, Mich.**
**Electro Products Co., 445 E. 189th St., New York 58, N. Y.**
**Gow-Mac Instrument Co., 100 Kings Rd., Madison, N. J.**
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.
**Heyer Industries, Inc., 471 Cortland St., Belleville 9, N. J.**
King Electric Equipment Co., 9123 Inman **Ave., Cleveland 5, Ohio.**
Permutit Co., 50 W. 44th St., New York 36, N. Y.
**Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio.**
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
**Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.**
Weidenhoff Corp., Algona, Iowa.

### ANALYZERS, Trouble (Engine and Electrical Equipment)

**Actane Chemical Co., Philadelphia 8, Pa.**
**Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.**
Bee-Line Co., P. O. Box 569, Davenport, Iowa.
**Bendix Products Div., Bendix Aviation Corp.,** South Bend 20, Ind.
**Du Mont Laboratories, Inc., Allen B., 750 Bloomfield Ave., Clifton, N. J.**
Electro Products Co., 45 E. 189th St., N. Y. 58, N. Y.
**Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.**
**Heyer Industries, Inc., 471 Cortland St., Belleville 9, N. J.**
**Kal-Equip Co., Kalamazoo, Mich.**
King Electric Equipment Co., 9123 Inman **Ave., Cleveland 5, Ohio.**
**Mack Products Co., 15 Putnam St., Winthrop, Mass.**
**Motoraide Corp., 2400 Emerald St., Phila. 25, Pa.**
Schauer Mfg. Co., 4500 Alpine Ave., Rossmoyne, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Ignition system.)
**Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.**
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo.
Weidenhoff Corp., Algona, Iowa.
**Westberg Mfg. Co., 144 S. Coombs St., Napa, Calif. (Engine.)**

### ANTI-FREEZE, Cooling System

**Ball Chemical Co., 524 Federal St., Pittsburgh 12, Pa.**
**Cliffs Dow Chemical Co., Wright St., Marquette, Mich.**
**Commercial Solvents Corp., 260 Madison Ave., New York 17, N. Y.**
**Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa.**
du Pont de Nemours & Co., E. I., Polychemical Dept., Zerone & Zerex Anti-Freeze Sales Section, Wilmington 98, Del.
**Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.**
Gulf Oil Corp., 1822 Gulf Bldg., Pittsburgh 30, Pa.
Jefferson Chemical Co., 1121 Walker St., Houston 2, Tex.
**Master Co., 37 Preston Ct., Brooklyn 34, N. Y.**
**Mopar Parts Div., Chrysler Corp., 7000 E. Eleven Mile Rd., Centerline, Mich.**
**National Carbon Div. of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.**
**Octagon Process, Inc., 15 Bank St., Staten Island 1, N. Y.**
Olin Mathieson Chemical Corp., Industrial Chemical Div., Mathieson Bldg., Baltimore 3, Md.
Petroleum Chemicals Co., Tilton Rd., Danville, Ill.
**Porte Mfg. Co., 3179 Atlantic Ave., Brooklyn 8, N. Y.**
**Randall Products Mfg. Co., 2095 Broadway, New York 23, N. Y.**
**Shell Oil Co., 50 W. 50th St., New York 20, N. Y.**
**Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.**
U. S. Industrial Chemicals Co., Div. of National Distillers Products Corp., 120 Broadway, New York 5, N. Y.
Union Carbide Chemicals Co., 30 E. 42nd St., N. Y. 17, N. Y.

### ANTI-FREEZE, Gasoline Line

**Bardahl Mfg. Corp., 1400 W. 52nd St., Seattle 7, Wash.**
Barton Products Co., 1891 N. Winnebago Ave., **Chicago 47, Ill.**
Bowes "Seal Fast" Corp., 5902 E. 34th St., Indianapolis 18, Ind.
**Commercial Solvents Corp., 260 Madison Ave., New York 16, N. Y.**
Cristy Chemical Corp., 37 Harvard St., Worcester 2, Mass.
**Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa.**
du Pont de Nemours & Co., E. I., Finishes Div., **Chemical Specialties Sales, Wilmington 98, Del.**
**Glisten Co., 13 Barnard St., Hillsdale, Mich.**
Gold Eagle Products Co., 1050 W. Kenzie St., Chicago 22, Ill.
Heet Div. of DeMert & Dougherty, Inc., 3001 **W. 47th St., Chicago 32, Ill.**
**Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.**
**Lubri-Loy Co., 6319 Wilson St., St. Louis 10, Mo.**
**Motor Kool Products Co., 505 Buttles Ave., Columbus 8, Ohio.**
**Pennsylvania Refining Co., Gumout Div., 2686 Lisbon Rd., Cleveland 4, Ohio.**
**Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.**
**Porte Mfg. Co., 3178 Atlantic Ave., Brooklyn 8, N. Y.**
Rust Master Chemical Corp., 58 Creighton St., Cambridge, Mass.
Standard Oil Co. of Calif., Western Operations, Inc., 225 Bush St., San Francisco 20, Calif.
**Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.**
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, **Calif.**
**Zecol, Inc., 3270 S. 3rd St., Milwaukee 7, Wis.**

### ARMATURES

American Generator & Armature Co., 6100 W. Grand Ave., Chicago 39, Ill.
**Arrow Armatures Co., 15 Fordham Rd., Boston 39, Mass. (Rewinds.)**
General Armature & Mfg. Co., Box 370, Lock Haven, Pa.

**ARBOR PRESSES, See Presses, Arbor**
**ARMS, BREAKER, See Parts, Ignition**

### AXLE, Load Equalizing

De Lay Industries, Inc., 834 Paul Brown Bldg., St. Louis 1, Mo.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.

**AXLE STRAIGHTENERS, See Straighteners, Axle; Gages, Wheel and Axle Aligning**

### AXLE SHAFTS

Canton Drop Forging & Mfg. Co., 207 12th St., S. E., Canton, Ohio.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Dittmer Gear Mfg. Corp., 193 Grand St., Lockport, N. Y.
Foote Axle & Forge Co., 3954 Whiteside St., Los Angeles 63, Calif.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Napco Industries Inc., Napco Axle Div., 834 N. Seventh St., Minneapolis 11, Minn.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Spencer Mfg. Co., 225 N. Main St., Spencer, Ohio.
Steel and Tubes, Inc., 224 E. 131st St., Cleveland, Ohio.
Timken-Detroit Axle Div., Rockville Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.
U. S. Axle Co., Inc., Water St., Pottstown, Pa.
York Electric & Machine Co., Loucks Mill Rd., York, Pa. (Sole distributors, Foreman, Inc., 630 Loucks Mill Rd., York, Pa.)

### AXLE SUSPENSION UNITS, Trailer

Acme Trailer Mfg. Co., 2591 N. Marks Ave., Fresno, Calif.
Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.
Clark Equipment Co., Buchanan 3, Mich.
Copco Trailers, Div. of Copco Steel Engrg. Co., 23500 Sherwood Rd., Detroit 34, Mich.
Detroit Automotive Products Corp., 8701 Grinnell Ave., Detroit 13, Mich.
Fayette Mfg. Co., Box 8, Fayette, Ohio.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Great Dane Trailers Inc., P. O. Box 1159, Savannah, Ga.
Grico Two Axle Drive Co., 19840 Eight Mile Road, W. (Redford Station), Detroit 19, Mich.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.
Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, (Chicago suburb), Ill.
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.
Hobbs Trailer Div. of Fruehauf Trailer Co., 609 N. Main St., Fort Worth 1, Tex.
Hutchens & Son Metal Products, Inc., 2332 E. Division St. Rd., Springfield, Mo.
Kingham Trailer Co., Inc., 15th & Hill Sts., Louisville, Ky.
Neway Equipment Co., 1183 E. Laketon St., Muskegon, Mich. (Tandem unit.)
Page & Page, 0605 S. W. Curry St., Portland 1, Ore.
Pointer-Williamette Co., P. O. Box 368, Edmonds, Wash.
Reynolds Mfg. Co., 600 N. Prospect Ave., Springfield 2, Mo.
Shamrock Trailers & Axle Mfg. Co., 13447 Schaefer St., Detroit, Mich.
Shuler Axle Co., 2901 S. 2nd St., Louisville 8, Ky.
Spencer-Safford Loadcraft Inc., Augusta, Kansas.
Standard Forge & Axle Co., Hunter Sta., Montgomery 2, Ala. (Licensee.)
Steel Products Co., Inc., Box 1159, Savannah, Ga.
Trailmobile, Inc., 31st & Robertson Ave., Cincinnati 9, Ohio.
Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y.
Trucktor Corp., P. O. Box 120, Westfield, N. J.
Youngstown Steel Car Corp., Hunter St., Niles 6, Ohio. (Self-steering undercarriage.)

### AXLE SUSPENSION UNITS, Trailer, Air

Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.
Brown Trailers, Inc., Box 54, Spokane 10, Wash.
Clark Equipment Co., Buchanan 3, Mich.
Hendrickson Mfg. Co., 8001 West 47th St., Lyons, Ill.
Neway Equipment Co., 1183 East Laketon St., Muskegon, Mich.
Spencer-Safford Loadcraft, Inc., Augusta, Kan.
Trucktor Corp., P. O. Box 120, Westfield, N. J.
Youngstown Steel Car Corp., Hunter St., Niles 6, Ohio.

### AXLE UNITS, Third, Trucks

Acme Trailer Mfg. Co., 2591 N. Marks Ave., Fresno, Calif.
Clark Equipment Co., Buchanan, Mich.
Detroit Automotive Products Corp., 8701 Grinnell Ave., Detroit 13, Mich. (Four wheel drive.)
F. A. B. Mfg. Co., 1249 67th St., Oakland 8, Calif.
Foster Trailer Co., 2026 Bay St., Los Angeles 21, Calif. (Detachable.)
Fox Body Co., 1109 Galena St., Janesville, Wis.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, Ill.
Hobbs Trailers Div. of Fruehauf Trailer Co., 609 N. Main St., Fort Worth 1, Tex.
Hutchens & Son Metal Products, Inc., E. Division St. Rd., Springfield, Mo.
Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill.
Neway Equipment Co., 1183 E. Laketon St., Muskegon, Mich.
Page & Page, 0605 S. W. Curry St., Portland 1, Ore.
Reynolds Mfg. Co., 600 N. Prospect Ave., Springfield, Mo.
Road Runner Corp., 11835 Ave. O, Chicago 17, Ohio. (Detachable; sole distributor Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.)
Superior Trailer Works, 1430 E. Washington Blvd., Los Angeles 12, Calif. (Also four-wheel chain drives.)
Timken-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.
Trailmobile, Inc., 31st & Robertson Aves., Cincinnati 9, Ohio.
Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio.
Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y.
Truckstell Mfg. Co., 1437 Union Commerce Bldg., Cleveland 14, Ohio.
Trucktor Corp., P. O. Box 120, Westfield, N. J. (Also chain and sprocket drive.)
Weber Trailer & Mfg. Co., 8400 Slauson Ave., Rivera, Calif. (Mailing address, P. O. Box 2473, Los Angeles 54, Calif.)

### AXLES, Front

Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.
Hahn Motors Inc., 400 S. Third St., Hamburg, Pa. (Dual.)
Page and Page Co., 0605 S.W. Curry St., Portland 1, Ore.
Shuler Axle Co., 2960 Second St., Louisville 8, Ky.
Timken-Detroit Axle Div. of Rockwell-Standard Corp., 100 Clark Ave., Detroit 32, Mich. (For trucks and buses.)

### AXLES, Front Drive

American Coleman Co., Littleton, Colo. (For conversions of Ford, Chevrolet, International G.M.C., Dodge, Mack, White, Reo and Autocar.)
F. A. B. Mfg. Co., 1249 67th St., Oakland 8, Calif.
Marmon-Herrington Co., 1511 W. Washington St., Indianapolis 7, Ind. (For Ford conversions.)
Timken-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.

### AXLES, Power Converter (For Refrigerated Trucks & Trailers)

Grico Two Axle Drive Co., 19840 Eight Mile Rd., W. Detroit 19, Mich.

### AXLES, Rear

Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
Cook Bros Equipment Co., 3324 San Fernando Rd., Los Angeles 65, Cal.
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.
Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio. (Tandem for trucks.)
Grico Two Axle Drive Co., 19840 Eight Mile Road, W. (Redford Station) Detroit 19, Mich. (Tandem for trucks.)
Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, Ill. (Wheel reduction.)
Napco Industries Inc., Napco Axle Div., 834 N. Seventh St., Minneapolis 11, Minn.
Timken-Detroit Axle Div. of Rockwell-Standard Corp., 100 Clark Ave., Detroit 32, Mich.

### AXLES, Rear, Two-Speed

Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.
Timken-Detroit Axle Div. of Rockwell-Standard Corp., 100 Clark Ave., Detroit 32, Mich.

### AXLES, Trailer

Clark Equipment Co., Buchanan, Mich.
Fayette Mfg. Co., Box 8, Fayette, Ohio.
French & Hecht, Div. of Kelsey-Hayes Co., 3rd and Farnam Sts., Davenport, Iowa.
Grico Two Axle Drive Co., 19840 Eight Mile Road, W. (Redford Sta.), Detroit 19, Mich.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.
Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, Ill.
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif.
Kingham Trailer Co., 15th & Hill Sts., Louisville, Ky.
Liggett Spring & Axle Co., Monongahela, Pa.
Liggett Supply & Equipment Co., 2030 S. Main St., Elkhart, Ind.
Napco Industries Inc., Napco Axle Div., 834 N. Seventh St., Minneapolis 11, Minn.
Prior Products Inc., 4828 Rosell St., Dallas, Texas.
Shamrock Trailers & Axle Mfg. Co., 13447 Schaefer St., Detroit, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Slimp Axle Products, Highway 99 West (P. O. Box 449), Colton, Calif. (Steering.)
Spencer Mfg. Co., 225 N. Main St., Spencer, Ohio.
Spencer-Safford Loadcraft, Inc., Augusta, Kan.
Springfield Body & Trailer Co., 1631 College St., Springfield, Ohio.
Standard Forge & Axle Co., Hunter Station, Montgomery 2, Ala.
Timken-Detroit Axle Div. of Rockwell-Standard Corp., 100 Clark Ave., Detroit 32, Mich.
Trucktor Corp., P. O. Box 120, Westfield, N. J.
United Mfg. Co., 5250 Dobeckmun Ave., Cleveland 2, Ohio.

### BABBITT METALS

Aluminum Co. of America, 801 Gulf Bldg., Pittsburgh 19, Pa. (Aluminum alloys.)
American Non-Gran Bronze Co., 511 Old Lancaster Road, Berwyn, Pa.
Bearing Metals Corp., 268 State St., Rochester 14, N. Y.
Belmont Smelting & Refining Works, 326 A Belmont Ave., Brooklyn, N. Y.
Boston Gear Works, Div. of Murray Corp., 14 Hayward St., Quincy 71, Mass.
Empire Metal Co., 820 E. Water St., Syracuse, N. Y.
Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
Lumen Bearing Co., 197 Lathrop St., Buffalo 12, N. Y.
National Lead Co., 111 Broadway, New York 6, N. Y.
North American Smelting Co., Marine Terminal, Wilmington, Del.
Pittsburgh Brass Mfg. Co., 3155 Penn Ave., Pittsburgh 1, Pa.
United American Metals Corp., 970 Meeker Ave., Brooklyn 22, N. Y.

BABBITTING MACHINES, See Machines, Babbitting

### BALANCERS, Crankshaft

John Bean Div., Food Machinery & Chemical Corp., Lansing 4, Mich.

### BALANCERS, Wheel

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Bennett-Feragen, Inc., 1005 S. Lafayette Blvd., South Bend 18, Ind.
Coats Co., 3001 Fifth Ave. S., Fort Dodge, Iowa. (Sole distributors John P. Hennessy Sales Co., 12 Depot Square, Englewood, N. J.) (Bubble type.)
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Hunter Engineering Co., Hunter Ave. & Ladue Rd., St. Louis 24, Mo.
Lambert, Inc., 513 Hunter Ave., Dayton, Ohio.
Lempco Products, Inc., 5490 Dunham Road, Bedford, Ohio.
Manbee Equip. Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago, Ill.
Morgan Wheel & Equipment Co., 2007 St. Mary's Ave., Omaha 2, Neb.
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 4, Ind.
Speedmaster Ltd., 630 E. 10th St., Oakland 4, Calif.
Stephenson Foundry & Mfg. Co., 548 E. Fort St., Detroit 26, Mich. (Static and dynamic.)
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago, Ill. (Electronic.)
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Dynamic.)

### BANDS, Tubeless Tire Mounting

Coats Co., 3001 Fifth Ave., Fort Dodge, Iowa. (Sole distributors, Jack P. Hennessy Sales Co., 12 Depot Sq., Englewood, N. J.)

### BARS, Towing, One Man Type

Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis.
Manley Div., Douglas Motors Inc., 1234 N. 62nd St., Milwaukee 13, Wis.
Marion Mfg. Co., N. Main St. at PRR, Marion, Ohio.
Pilot Mfg. Co., Battle Creek, Mich. (Sole distributors, Pilot Distributing Co., 31 South Pl., Battle Creek, Mich.)
Wood-Williams-Copp Mfg. Co., 5239 N. Michigan Ave., Ypsilanti, Mich.

### BATTERIES, Dry

Bright Star Industries, 600 Getty Ave., Clifton, N. J.
Burgess Battery Co., Ft. of Exchange St., Freeport, Ill.
General Dry Batteries Co., 13000 Athens Ave., W. Cleveland 7, Ohio.
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
National Carbon Co. Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.
Olin Industries, Inc., Electrical Div., 275 Winchester Ave., New Haven 4, Conn.
Ray-O-Vac Co., 212 E. Washington Ave., Madison 10, Wis.
Underwood Battery Co., 1220 W. 6th St., Cleveland 13, Ohio.

### BATTERIES, Storage

American Battery Co., 1520 McGavock St., Nashville 3, Tenn.
Am-Plus Storage Battery Co., 1000 W. 94th St., Chicago 20, Ill.
Atlantic Battery Co., 80 Elm St., Watertown 72, Mass.
Bewers Battery & Spark Plug Co., Reading, Pa.
Continental Battery Co., 1914 S. Central Expressway, Dallas 15, Tex.
Continental Mfg. Corp., 10411 W. Washington Blvd., Culver City, Calif.
Crescent Battery & Light Co., 818 Camp St., New Orleans 12, La.
Cumberland Battery Mfg. Co., 201 First Ave., S., Nashville 3, Tenn.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Douglas Battery Mfg. Co., Winston-Salem, N. C.
East Penn Mfg. Co., Lyons Station, Pa.
Ebert-Allen Battery Co., 630 Tyler St., Joplin, Mo.
Electric Auto-Lite, Battery Divs., Toledo 1, Ohio.

# bearing and con rod service to bearings and bushings

**BATTERIES—continued**

Electric Storage Battery Co., Automotive Div., 246 E. 131st St., Cleveland 1, Ohio. (Sole distributors Exide Automotive Div., Electric Storage Battery Co., 246 E. 131st St., Cleveland 1, Ohio.)
**The Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron 17, Ohio.**
**Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.**
**Geidel Battery Mfg. Co., 3393 Bigelow Blvd., Pittsburgh 19, Pa.**
General Tire & Rubber Co., Englewood & Holmes Ave., Akron 9, Ohio.
**Gill Electric Mfg. Corp., 624 W. Citrus Ave., Redlands, Cal.**
**Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.**
**Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio.**
**Gould-National Batteries, Inc., First Nat'l Bank Bldg., St. Paul 1, Minn.**
**Grant Scott Marlott Battery Div., 1112 Industrial Ave., Danville, Ill.**
**Grant Storage Battery Div., Electric Storage Battery Co., 226 N. Second St., Minneapolis, Minn.**
**Gulf Oil Corp.,** 1822 Gulf Bldg., Pittsburgh 30, Pa.
Hester Battery Mfg. Co., 10 Culvert St., Nashville, Tenn.
Kelly-Springfield Tire Co., P. O. Box 300, Cumberland, Md.
Laher Battery Production Corp., 2615 Magnolia St., Oakland, Cal.
Lee Rubber & Tire Corp., Conshohocken, Pa.
**Nic-L-Silver Battery Co., 600 Terminal St., Santa Ana, Calif.**
**Pate Oil Co., 3460 W. Leeds Road, Milwaukee 15, Wis.**
**Pennsylvania Tire Co., P. O. Box 377, Mansfield, Ohio.**
**Perrine Quality Products Corp., 55 Rumford Ave., Waltham, Mass.**
**Perry Batteries, 3102 Corunna Road, Flint 3, Mich.**
**Prest-O-Lite Battery Div. Electric Auto-Lite Co., Toledo 1, Ohio.**
**Price Battery Corp., Grand St., Hamburg, Pa. (Sole distributors, Lyons Storage Battery Co., Hamburg, Pa.; "Witherbee," sole distributor, Witherbee Storage Battery Co., Hamburg, Pa.)**
**Prime Battery Mfg. Co., 2001 W. 8th St., Anderson, Ind.**
**Put Battery Charger Co., 1207 Castle St., Dallas, Tex.**
**Reading Batteries Div. Electric Auto-Lite Co., 4700 Fifth St., Highway, Temple, Pa.**
**Red Diamond Battery Mfg. Co., 1415 N. Adams St., Peoria 3, Ill.**
**Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa.**
**Scranton Storage Battery Corp., Delaware St., Archbald, Pa.**
Southland Battery Co., 2040 Amelia St., Dallas, Texas.
**Standard Electric Co., 115 San Pedro Ave., San Antonio, Tex.**
States Batteries Inc., 3455 S. Lacienega Blvd., Los Angeles 16, Calif.
**Surrette Storage Battery Co., Jefferson Ave., Salem, Mass.**
**United Motors Service, General Motors Bldg., Detroit 2, Mich.**
**Universal Battery Co., 3410 S. La Salle St., Chicago 16, Ill.**
**Volta Battery Corp., 1000 E. 87th St., Chicago 19, Ill.**
**Wisconsin Storage Battery Co., 1222-18th St., Racine, Wis.**
**Witherbee Storage Battery Co., Hamburg, Pa.**

**BATTERY CHARGERS, See Chargers, Battery.**

**BEARING and CON ROD SERVICE**

**Federal-Mogul, Detroit 13, Mich.**

**BEARINGS, Ball**

**Aetna Ball & Roller Bearing Co., Div. of Parkersburg-Aetna Corp., 4600 Schubert Ave., Chicago 39, Ill. (Thrust and angular contact.)**
**Ahlberg Bearing Co., 3025 W. 47th St., Chicago 32, Ill.**
**American Ball Bearing Co., 70 Flushing Ave., Brooklyn 1, N. Y.**
**Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.**
Andrews Bearing Co., P. O. Box 570, Spartanburg, S. C.
**Automatic Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.**
Ball & Roller Bearing Co., 22 Maple Ave., Danbury, Conn.
Bearings Co. of America, Div. of Federal-Mogul-Bower Bearings, Inc., 501 Harrisburg Ave., Lancaster, Pa.
Boston Gear Works, Div. Murray Corp., 14 Hayward St., Quincy 71, Mass.
Briney Mfg. Co., 1165 Seba Rd., Pontiac, Mich.
**Burgess-Norton Mfg. Co., 731 Peyton St., Geneva, Ill. (Assemblies.)**
Consolidated Bearings Co., 13 Princeton St., East Orange, N. J.
Continental Bearing Corp., 2515 Wabash Ave., Chicago 16, Ill.
Fafnir Bearing Co., 37 Booth St., New Britain, Conn.
Federal Bearings Co., 17 Fairview Ave., Poughkeepsie, N. Y.
Gilpok Automotive Products Div. of Packer Auto Parts Inc., Roselle, N. J.
Green Ball Bearing Co., 9518 Cassius Ave., Cleveland 5, Ohio.
Gwilliam Co., 360 Furman St., Brooklyn 1, N. Y.
Hoover Ball & Bearing Co., Ann Arbor, Mich.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Kaydon Engineering Corp., Muskegon, Mich.
L & S Bearing Co., 6 S. Pennsylvania Ave., Oklahoma City, Okla.
**Majestic Bearing Div. of Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.**
Marlin-Rockwell Corp., 402 Chandler St., Jamestown, N. Y. (Sole distributors to replacement trade, M-R-C Bearings Service Co., Jamestown, N. Y.)
Master Parts Div., Airtex Products Inc., Fairfield, Ill.
New Departure Div. General Motors Corp., 269 N. Main St., Bristol, Conn. (Steel.)
Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.
Norma-Hoffmann Bearings Corp., Hamilton Ave., Stamford, Conn.
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa.
Schatz Mfg. Co., Poughkeepsie, N. Y.
Stephens-Adamson Mfg. Co., 150 Ridgeway St., Aurora, Ill.
Thomson Industries, Inc., 1029 Plandome Rd., Manhasset, N. Y.
United Motors Service, General Motors Bldg., Detroit 2, Mich.
Wagner Mfg. Co., E. R., 4611 N. 32nd St., Milwaukee 16, Wis.

**BEARINGS, Clutch Throwout**

Accurate Re-Nu Clutch Div. of Mar Pro, Inc., 168 N. Michigan Ave., Chicago 1, Ill.
**Aetna Ball & Roller Bearings Co., Div. of Parkersburg-Aetna Corp., 4600 Schubert Ave., Chicago 39, Ill. (Ball; sole distributors to replacement trade, Automotive Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.)**
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
Automotive Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.
**Bearings Co. of America, Div. of Federal-Mogul-Bower Bearings, Inc., 501 Harrisburg Ave., Lancaster, Pa.**
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Green Ball Bearing Co., 9518 Cassius Ave., Cleveland 5, Ohio.
L & S Bearing Co., 6 S. Pennsylvania Ave., Oklahoma City, Okla.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2958 E. 55th St., Cleveland 27, Ohio.)
Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.
Perfection Gear Co., 152nd St. & Viscennes Ave., Harvey, Ill.
Preferred Electric Wire Co., Bush Terminal Bldg. #8, Brooklyn 32, N. Y.
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa.
SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa.
Schatz Mfg. Co., Poughkeepsie, N. Y.

**BEARING LEAK DETECTORS, See Testers, Bearing Wear**

**BEARINGS, Roller**

**Aetna Ball & Roller Bearing Co., Div. of Parkersburg-Aetna Corp., 4600 Schubert Ave., Chicago 39, Ill.**
**American Ball Bearing Co., 70 Flushing Ave., Brooklyn 1, N. Y.**
**Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.**
**Automotive Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.**
**Ball & Roller Bearing Co., 22 Maple Ave., Danbury, Conn.**
**Bower Roller Bearing Div., Federal-Mogul-Bower Bearings, Inc., 3040 Hart Ave., Detroit 14, Mich.**
**Consolidated Bearings Co., 13 Princeton St., East Orange, N. J.**
**Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.**
**Federal-Mogul Service, Div. Federal-Mogul Corp., Detroit 13, Mich.**
**Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.**
**Gilpok Automotive Products Div. of Packer Auto Parts Inc., Roselle, N. J.**
**Gwilliam Co., 360 Furman St., Brooklyn 1, N. Y.**
**Hoover Ball & Bearing Co., Ann Arbor, Mich.**
**Hyatt Bearings Div., General Motors Corp., Harrison N. J.**
**International Parts Corp., 11th & State Sts., Chicago 5, Ill.**
**Kaydon Engineering Corp., Muskegon, Mich.**
**L & S Bearing Co., 6 S. Pennsylvania Ave., Oklahoma City, Okla.**
**Majestic Bearing Div. of Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.**
**Norma-Hoffmann Bearing Corp., Hamilton Ave., Stamford, Conn.**
**Orange Roller Bearing Co., 557 Main St., Orange, N. J.**
**Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.**
Roller Bearing Co. of America, Sullivan Way West Trenton, N. J.
**Rollway Bearing Co., 541 Seymour St., Syracuse 4, N. Y.**
**SKF Industries, Inc., Front St., & Erie Ave., Philadelphia 32, Pa.**
**Timken Roller Bearing Co., 1835 Dueber Ave., S. W., Canton 6, Ohio.**
Torrington Co., 59 Field St., Torrington, Conn.
Tyson Bearing Co., Div. of SKF Industries, Inc., Oberlin & Thomas Aves., Massillon, Ohio.
**United Motors Service, General Motors Bldg., Detroit 2, Mich.**

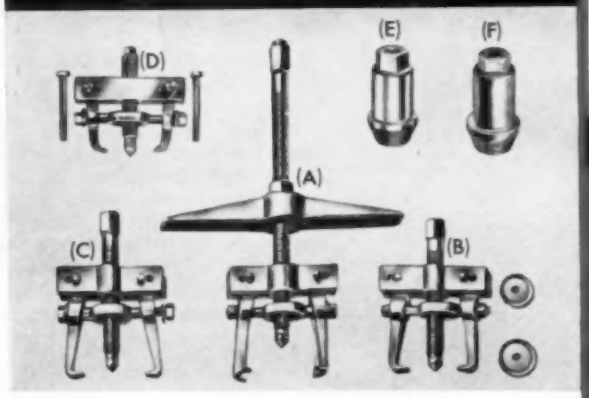
**BEARINGS and BUSHINGS**

**Al-Fin Div., Fairchild Engine & Airplane Corp. Deer Park, L. I., N. Y. (Aluminum lined.)**
**Aluminum Industries, Inc., 3670 Werk Rd., Cincinnati 11, Ohio**
**Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.**
**Bronze Bearings Inc., 340 North Ave., E. Cranford, N. J.**
**Buckeye Brass & Mfg. Co., 6410 Hawthorne Ave., Cleveland 3, Ohio.**
**Bunting Brass & Bronze Co., 715 Spencer St., Toledo 9, Ohio.**
**Cleveland Graphite Bronze Div. of Clevite Corp., 17000 St. Clair Ave., Cleveland 10, Ohio. (Also sole distributors to replacement trade, Clevite Service, 6545 Carnegie Ave., Cleveland 3, Ohio; bearings.)**
**Detroit Aluminum & Brass Corp., 3975 Christopher Ave., Detroit 11, Mich. (Bearings.)**
**Dura-Bond Bearing Co., 715 Loma Verde Ave., Palo Alto, Calif. (Babbitt lined bearings.)**
**Federal-Mogul Div. Federal-Mogul-Bower Bearings, Inc., 11031 Shoemaker Rd., Detroit 13, Mich.**
**International Parts Corp., 11th & State Sts., Chicago 5, Ill.**
**Johnson Bronze Co., 640 S. Mill St., New Castle, Pa.**
**Mallory & Co., P. R., 3029 E. Washington St., Indianapolis, Ind.**
**McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. (Bearings.)**
**Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio.**
**Muncie Parts Mfg. Co., 2601 S. Jefferson, Muncie, Ind. (for power take-off drive lines)**
**National Molded Products, Inc., 40 S. St. Marys St., St. Marys, Pa.**
**Pioneer Motor Bearing Co., 116 Beacon St., South, San Francisco 9, Calif. (Babbitt lined.)**

# Get six pullers in one interchangeable set

## —SAVE OVER 1/3 THE COST

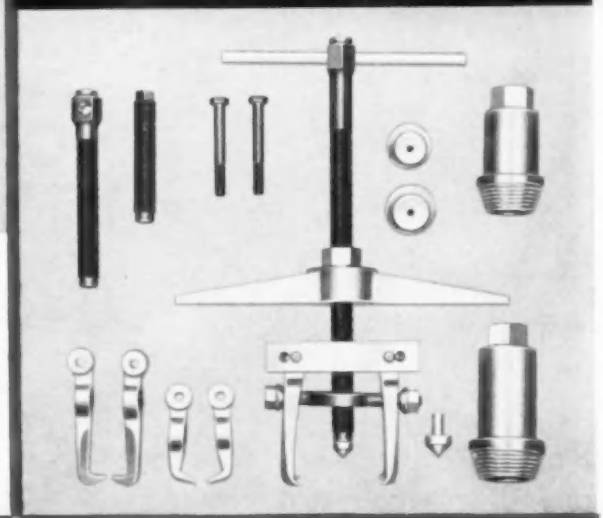
**INDIVIDUAL PULLERS**




| | | | |
|---|---|---|---|
| (A) | 1 CJ-86 | Pinion Gear Puller | $23.75 |
| (B) | 1 CJ-81C | Side Carrier Bearing Puller | 14.25 |
| (C) | 1 CJ-82B | Pitman Arm Puller | 12.50 |
| (D) | 1 CJ-87 | Timing Gear Puller | 12.95 |
| (E) | 1 CJ-66-16B | Oil Seal Puller | 6.50 |
| (F) | 1 CJ-66-24 | Oil Seal Puller | 7.50 |
| (G) | 1 KRA-280 | Metal Case | 9.55 |

TOTAL $87.00

**INTERCHANGEABLE PULLER SET**



$59.65 1 CJ-281-S Set in Metal Box

**YOU SAVE $27.35**

**Also available on easy payment plan**

Prices subject to change without notice.

Now you can get a single *Snap-on*® combination puller set that handles the work of six individual pullers — for a third less cost.

Save now on the set that handles almost all of those special, frequent pulling jobs — a set that pays for itself over and over again.

### *Snap-on* pullers stand out and stand up

These *Snap-on* pullers are made from the finest alloy steels. Jaws are forged and heat-treated for extra strength and are shaped to match the parts they pull. All parts are precision-made to fit together smoothly, work easily and speed your pulling jobs.

### Yours on easy payments

Take advantage of this six-in-one offer now. Equivalent separate pullers, regardless of make, would cost you much more. And this set is yours for just a little down, a little each week. Ask your *Snap-on* man about the CJ-281 puller set the next time he calls.

**SNAP-ON TOOLS**
CORPORATION
8026-K 28th Avenue • Kenosha, Wisconsin

NEW MACK
MODEL N TRACTORS—
less than 83" B.B.C.
Here's the low-silhouette Mack COE with a range of large-capacity, high performance Mack engines—gasoline or diesel—up to 205 diesel h.p. Tilt-action cab gives full engine accessibility. Set-back front axles permit ideal 1/3:2/3 weight distribution.
Mack transmission and air-boosted hydraulic clutch offer advanced handling characteristics. Low step-height and unimpeded front seat (in 40 series) allow fast entry-exit to left or right.
MACK...
NEW MACK
MODEL B TRACTORS—
from 89" B.B.C.
Here are conventional-cab Macks that handle 35-foot, standard square-nosed trailers within 45 feet over-all. Choice of Mack diesel or gasoline engines from 170 to 205 h.p. Despite remarkable foreshortening on some models, maintenance routines—even major overhauls—are easily accomplished without removing engine. You get roomy comfort, fast and easy maintenance and the exclusive Mack unitized construction.

**NEW MACK**

**MODEL H TRACTORS—**

**less than 67" B.B.C.**

Here's a new look in a proved cab-over champion. Mack Model H (67" bumper to cab back without integral sleeper cab . . . 81" *with* it) is designed to haul maximum-length trailers in bridge-formula areas. Raised driver position gives road-commanding vision. Offers Mack diesel engines up to 205 h.p., ideal gear ratios and full tilt-cab accessibility. And Mack Model H has been newly restyled for even better looks and faster maintenance.

# first name for tractors

## . . . look to MACK for the model that's right for you!

Only Macks are likely to meet your tractor needs exactly, because only Macks offer:

**COE, cab-forward or conventional tractors. Choice of front axle location that gives you your most favorable weight distribution. Four-wheel models or six-wheelers with famous Mack Balanced Bogie. Choice of gasoline, diesel or turbocharged diesel engines up to 205 h.p. The Mack transmissions (5- to 20-speed), plus Mack-built brakes, frames, axles and suspensions that best fit your operation.**

*And* . . . not only does Mack offer you units that are customer-assembled to match your needs exactly . . . but you also get the benefit of the unrivaled mechanical superiority of any Mack—a priceless advantage in terms of economy, long life and dependability. Check your Mack branch or distributor soon for the Mack that's right for *you*. Mack Trucks, Inc., Plainfield, New Jersey. In Canada: Mack Trucks of Canada, Ltd.

**MACK** *first name for* **TRUCKS**

6374

**BEARINGS—continued**

Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. (Engine bearings.)
Wolverine Gear & Parts Co., Osseo, Mich. (Camshaft bearings.)

**BELTS, Fan and Accessories**

Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
Boston Woven Hose & Rubber Co., P. O. Box 191, Boston 3, Mass.
Crown Products Co., 5722 S. 77th St., Ralston, Neb.
Dallas Mfg. & Sales Co., P. O. Box 7181, Dallas, Texas.
Dayton Rubber Co., 2842 Riverview Ave., Dayton, Ohio.
Diamond Rubber Co. Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.
Durkee-Atwood Co., 215 Seventh St., N. E. Minneapolis 13, Minn.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc. Manheim, Pa.
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
Loreman Products, Moore & Division Sts., Salisbury, Md.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Ohio Rubber Co., 30 Ben Hur Ave., Willoughby, Ohio.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Ridbo Laboratories, Inc., 211 E. Harrison St., Danville, Ill. (Fan)
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

**BELTS, Safety**

Aero Safety Equipment Co., Los Angeles, Cal.
Alofs Mfg. Co., 345 32nd St., S.W., Grand Rapids 8, Mich.
Auto-Craft Mfg. Co., Div. of B-N Corp., 1849 Blake Ave., Los Angeles 39, Calif.
Brown Automotive Ray, 5656 Santa Monica Blvd., Los Angeles 38, Calif.
Bullard Co., E. D., 2680 Bridge Way, Sausalite, Calif.
Bunke-Musser, Inc., Box 386, Jackson Center, Ohio.
Fabric Mfg. Co., 97 Chestnut St., Newark 5, N. J.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Hickok Mfg. Co., 850 St. Paul St., Rochester 1, N. Y.
Hinson Mfg. Co., Westfield Ave. & Manges St., Waterloo, Iowa.
International Mfg. Co., 2512 Washington St., Roxbury 19, Mass.
Irving Airchute Co., Lexington, Ky.
Kwikset Automotive Products, Div. of Kwikset Locks, Inc., Anaheim, Calif.
Modern Accessories Co., 1526 Scott Blvd., Covington, Ky.
Narrow Fabric Co., Reading, Pa.
Rupert Parachute Co., Wheeling, Ill.
Russell Mfg. Co., Middletown, Conn.
Safety Sales Co., Stanford, Conn.
Schlegel Mfg. Co., 155 Jefferson Rd., Rochester 23, N. Y.
Southern Weaving Co., 4 Evans St., Greenville, S. C.
Sparton Automotive Div., Sparton Corp., Jackson, Mich.
Stebco Mfg. Co., 1401 W. Jackson Blvd., Chicago 7, Ill.
Sturges Mfg. Co., 2030 Sunset Ave., Utica 4, N. Y.
Switlik Parachute Co., 1325 E. State St., Trenton, N. J.
Thomas Co., R. M., 2019 E. Willard St., Muncie, Ind.

**BENCH DRILLS, See Drill Presses**

**BENDERS, Tube**

Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.
Excello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Farrell-Cheek Steel Co., Ft. Madison St., Sandusky, Ohio.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill.
Leonard Precision Products Co., 10052 Larson Ave., Garden Grove, Calif.
Lidseen Inc., Gustave, Hayesville, N. C. (Portable machine)
O'Neill-Irwin Mfg. Co., Lake City, Minn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Parker-Hannifin Corp., Parker Fittings & Hose Div., 17325 Euclid Ave., Cleveland 12, Ohio.
Paul Machine Tool & Die Works, 4600 S. Kedzie Ave., Chicago 32, Ill.
Pines Engrg. Co., 601 Walnut St., Aurora, Ill.
Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.
Williams, White & Co., Third Ave. & Eighth St., Moline, Ill.

**BINDERS, See Load Binders**

**BINS, Parts Storage**

Akro-Mils Inc., 820 E. Market St., Akron 5, Ohio.
American Metal Products Co., 5959 Linsdale Ave., Detroit 4, Mich.
Bathey Mfg. Co., 100 S. Mill St., Plymouth, Mich.
Bay Products, Inc., 3001 N. 16th St., Philadelphia 32, Pa.
Berger Mfg. Div. Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio.
Bernard Franklin Co., Hedley & Bath Sts., Phila., 37, Pa.
Borroughs Mfg. Co., 3002 N. Burdick St., Kalamazoo, Mich.
De Luxe Metal Furniture Co., Struthers St., Warren, Pa.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Equipto Div. of Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill.
Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis.
Fort Steuben Metal Products Co., Follansbee, W. Va.
Franklin Co., Bernard, Healey & Bath Sts., Philadelphia 37, Pa.
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio.
Frontier Mfg. Co., 11200 Harry Hines Bldg., Dallas, Tex.
Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
Hope Metal Products Co., 1688 Arabella Rd., Cleveland 12, Ohio.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
Midland Mfg., Inc., 1100 S. McComa's St., Wichita 12, Kan. (Steel.)
Miller Wood Products Co., Greater Rockford Airport, Rockford, Ill.
Neiman Steel Equipment Co., 2960 E. Venango St., Philadelphia 34, Pa.
Red Tiger Products, Inc., 20 N. Wacker Drive, Chicago 6, Ill.
Renie Metal Products Corp., P. O. Box 344, Mansfield, Ohio.
Space Saving Equipment Co., 160-18 27th Ave., Flushing 58, N. Y. (Steel)
Supreme Steel Equip. Co., 53rd St. & First Ave., Bklyn. 32, N. Y.
Union Metal Mfg. Co., 1432 Maple Ave. N.E., Canton 5, Ohio.

**BLADES, Saw, Band**

American Saw & Mfg. Co., 67 Boylston St., Springfield, Mass.
Atkins Saw Div., Borg-Warner Corp., 402 S. Illinois St., Indianapolis 9, Ind.
Capewell Mfg. Co., 60 Governor St., Hartford 2, Conn.
Chicago Saws, Inc., 6137 S. Oak Park St., Chicago 9, Ill.
Diamond Saw Works, Inc., Chaffee, N. Y.
Disston Div. H. K. Porter Co., Unruh & Milnor Sts., Tacony, Philadelphia 35, Pa.
DoAll Co., 254 N. Laurel Ave., Des Plaines, Ill.
Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y.
Griffin Co., G. W., 93 Memorial St., Franklin, N. H. (Sole distributors, John H. Graham & Co., 105 Duane St., New York 8, N. Y.)
Heller Tool Co., Heller Dr., Newcomerstown, Ohio.
Lippert Saw Co., E. T., 608 Lincoln Ave. (Millvale), Pittsburgh 9, Pa.
Millers Falls Co., Greenfield, Mass.
Napier Saw Works, 22 Cottage St., Middletown, N. Y.
Rockwell Tools, Inc., 1314 Kinnear Rd., Columbus 8, Ohio.
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
Spartan Saw Works, Inc., 152 Fisk Ave., Springfield 7, Mass.
Starrett Co., L. S., 1-165 Crescent St., Athol, Mass.
Victor Saw Works, 22 Cottage St., Middletown, N. Y.

**BLADES, Saw, Circular**

Atkins Saw Div., Borg-Warner Corp., 402 S. Illinois St., Indianapolis 9, Ind.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Chicago Saws, Inc., 6137 S. Oak Park St., Chicago 9, Ill.
Circular Tool Co., 765 Allens Ave., Providence, R. I.
Cowles Tool Co., 2886 W. 110th St., Cleveland, Ohio.
Disston Div. H. K. Porter Co., Unruh & Milnor St., Tacony, Philadelphia 35, Pa.
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Lippert Saw Co., E. T., 608 Lincoln Ave. (Millvale), Pittsburgh 9, Pa.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. (Mica undercutting.)
Meyers Co., W. F., 1017 14th St., Bedford, Ind.
Motch & Merryweather Machinery Co., 718 Penton Bldg., Cleveland 13, Ohio
Page Slotting Saw Co., 1836 Laurence Ave., Toledo 6, Ohio.
Remington Arms Co., 939 Barnum Ave., Bridgeport 2, Conn.
Retool Corp., 4540 W. Burnham St., Milwaukee 46, Wis.
Rockwell Tools, Inc., 1314 Kinnear Rd., Columbus 8, Ohio.
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
Standard Tool Co., 3950 Chester St., Cleveland 14, Ohio.
Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.

**BLEEDERS, Hydraulic Brake**

Ammco Tools Inc., 2100 Commonwealth Ave., North, Chicago, Ill.
Arsco Mfg. & Sales Corp., 451-10th Ave., New York 18, N. Y.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Bennett-Feragen, 1408 Jerome St., Niles, Mich.
Dixie-Jibo Co., 2004 Mullanphy St., St. Louis 6, Mo.
Eis Automotive Corp., Middletown, Conn.
Grigg Specialty Tools, 8103 Marbrisa Ave., Huntington Park, Calif.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Wilco Products Inc., 595 Valley St., Orange, N. J.
Wilson, Inc., K. R., Arcade, N. Y.

**BLOCKS, CRANE and DERRICK, See Cranes, Crawler & Truck Mounted**

**BLOCKS, BRAKE, See Lining, Brake**

**BLUE, Mechanics'**

Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Dykem Co., 2301 N. 11th St., St. Louis 6, Mo.
Permatex Co., 300 Broadway, Huntington Station, N. Y.

**BODIES, Ambulance and Funeral**

Eureka Co., 312 W. First St., Rock Falls, Ill. (Hearse & ambulance, for Cadillac chassis.)
Franklin Body & Equipment Corp., 1042 Dean St., Brooklyn, N. Y. (Ambulance.)

# NOW . . . A LIGHTER, BETTER SELF-CONTAINED AIR BRAKE!

## As you would expect, it's a product of . . . SHULER AXLE

HERE is a brand new self-contained Shuler Brake for use with driving axles, trailing and pusher axles, drop axles, etc.

*It is light*—a completely assembled 16½"x7" brake set weighs only 80 lbs.

It preserves the full strength of the axle tube by eliminating welded attachments.

It embodies the already-famous new Shuler "F.T.L." fabricated-steel, tapered-lining brake shoe—lighter, stronger, *better.*

It has chrome-finished anchor pins, hardened and ground for maximum wear. Sealed anchor pin joints insure free movement. One-piece forged and finish-coined cams, specially hardened at critical wear surfaces.

It is easily serviced in the field—no welds to make or break. Its components are completely accessible and have full provisions for lubrication.

It is truly "lightweight construction for heavy-duty use"—efficient, durable, compact, simple and serviceable. You deserve to have all the facts. Write:

**SHULER AXLE COMPANY, Incorporated, LOUISVILLE, KENTUCKY**

Subsidiary of Fuller Manufacturing Company

SALES OFFICES: CHICAGO, DETROIT, PHILADELPHIA, OAKLAND AND TULSA

**WEST COAST WAREHOUSE**
**Oakland, California**

**SOUTHWEST WAREHOUSE**
**Fort Worth, Texas**

**BODIES—continued**

**Hesse & Eisenhardt Co., 8959 Blue Ash Ave., Cincinnati 42, Ohio.**
**Meteor Motor Car Co., 125 Clark Ave., Piqua, Ohio.**
**Miller Div., Wayne Works, Inc., Bellefontaine, Ohio.**
**National Body Mfg. Co., Main St., Knightstown, Ind.**
**Roehlk Spring and Body Co., 417 S. 15th St., St. Louis 3, Mo.**
**Shop of Siebert, Associates, Inc., Waterville, Ohio**
**Superior Coach Corp., Southern Div., Kosciusko, Miss.**

**BODIES, Commercial**

ALF Body Corp., 4400 Clayton Ave., St. Louis 10, Mo.
**Allegheny Body Co., 1633 N. 6th St., Phila. 22,** Pa. (Refrigerated van, rescue, squad, armored, utility and line construction.)
**Aluminum Body Corp., 1600 W. Washington Blvd., Montebello, Calif.**
**American Body & Equipment Co., P. O. Box 3107, Dallas 21, Tex.** (Insulated and refrigerated.)
**American Body & Trailer, Inc., P. O. Box 1150, Oklahoma City 1, Okla.**
**American Fire Apparatus Co., Golden Ave. at Main St., Battle Creek, Mich.** (Fire fighting apparatus.)
American Truck & Body Co., Martinsville, Va.
**Andrews Industries, Inc., 7901 Alabama Ave., St. Louis 11, Mo.**
Ansted Corp., 1428 W. Henry St., Indianapolis 7, Ind.
**Arkansas Machine Specialty Co., Hope, Ark.** (Bottlers'.)
**Auto Body Works, Pierce Ave. & Eighth St., Appleton, Wis.** (Fire fighting equipment, utility, refrigerated, bottlers', etc.)
**Badger Body Mfg. Co., 2719 Cuming St., Omaha, Neb.** (Combination grain and stock.)
**Baker Equipment Engrg. Co., Summit & Norfolk Sts., Richmond 11, Va.** (Also public utility.)
**Baker Trailer & Body Co., 700 N. 20th St., St. Louis 3, Mo.**
**Baltimore Body Corp., 2253 Kirk Ave., Baltimore, Md.**
**Barkow Co., H., 153 N. Milwaukee St., Milwaukee 2, Wis.**
**Barry & Baily Co., 2419 N. 27th St., Philadelphia 32, Pa.**
**Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.**
**Batavia Body Co., 5 W. Wilson St., Batavia, Ill.** (Refrigerator.)
**Baughman Mfg. Co., Shipman Rd., Jerseyville, Ill.** (Bulk, cement and feed.)
**Bedell Trailer Co., 1506 S. Flores St., San Antonio 4, Tex.** (Refrigerated.)
**Belgrade Wagon Works, 3740 E. Thompson St., Philadelphia 37, Pa.**
**Belmont Body Builders, 175 Belmont Ave., Newark 3, N. J.** (Also bus.)
**Black & Sons, Inc., Adam, 276 Tonnele Ave., Jersey City 6, N. J.** (Refrigerator and bus.)
Blue Bird Body Co., Fort Valley, Ga. (Passenger & school bus.)
Boardman Co., P. O. Box 1152, Oklahoma City, Okla. (Special duty.)
Bolick Sons Co., Jerome, Conover, N. C. (Also bus.)
Body Builders Inc., 1445 16th St., Huntington 1, W. Va. (Steel & aluminum bakery, creamery, etc., to order.)
**Born & Sons, Inc., Herman, N. North Point Rd. & Bayview Ave., Baltimore 24, Md.**
**Boyertown Auto Body Works, Inc., Third & Walnut Sts., Boyertown, Pa.**
**Brightbill Body Works, Inc., M. A., Lebanon, Pa.**
Brown Truck & Trailer Mfg. Co., P. O. Box 1281, Morris Field, Charlotte 1, N. C. (Garbage collection.)
**Brunswick Body Wks., U. S. Route 1, New Brunswick, N. J.**
**Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa.**
California Aluminum Bodies, 1720 Greenwood Ave., Montebello, Calif. (Custom built.)
**C & C Trailer & Body Co., 8855 San Leandro St. Oakland 21, Calif.**
**Carnegie Body Co., 6115 Carnegie Ave., Cleveland 3, Ohio.**
Carpenter Body Works, Inc., Mitchell, Ind.
**Cato Trailer Service Co., White Horse Rd., Greenville, S. C.** (Truck and trailer.)
**Chain Belt Co., 4732 W. Greenfield Ave., Milwaukee 1, Wis.** (Ready mixed concrete.)
Checker Motors Corp., 2016 N. Pitcher St., Kalamazoo, Mich. (Also bus.)
**Clark Co., B. M., Union, Maine.**
**Clayson-Lorenz Co., 4058 W. Chicago Ave., Chicago 51, Ill.** (Custom built.)
**Cliffside Body Corp., 230 Laird Ave., Cliffside Park, N. J.** (Steel and aluminum.)
Commercial Body Corp., By-Pass 291-N. Greenville, S. C.
Cook Body Co., 2433 Wilkinson Blvd., Charlotte 8, N. C. (Van platform, stake.)
Copco Trailers, Div. of Copco Steel & Engrg. Co., 23500 Sherwood Rd., Detroit 34, Mich.
**Couse Mfg., Inc., 300 Passaic St., Newark 4, N. J.** (Armored.)
**Crown Body & Coach Corp., 2500 E. 12th St., Los Angeles 21, Calif.**
Crown Steel Products Co., 1330 N. Main St., Orrville, Ohio. (Utility.)
**Cutler Metal Products Co., 1029 Line St., Camden, N. J.**
Daybrook Hydraulic Div. of L. A. Young Spring & Wire Corp., Bowling Green, Ohio.
Dayton T. Brown, Inc., 1305 Strong Ave., Copiague, Long Island, N. Y.
**De Hart & Son, H. A., Crown Pt. Rd., Thorofare, N. J.**
**DeKalb Commercial Body Co., W. 229 Garden St., DeKalb, Ill.** (Stake, milk delivery van, bakery, laundry, refrigerated, lumber, steel and parcel delivery.)
**Delphi Body Works, 311 S. Washington St., Delphi, Ind.** (Public utility.)
**Diehl & Sons, Inc., 129 Atlantic Ave., Richmond Hille 19, N. Y.**
**Driban Body Works, 1310 S. Second St., Philadelphia, Pa.**
**Dura-Bilt Body Co., Bldg. No. 8, National Dock, East Boston 28, Mass.**
Eight Point Trailer Co., 6100 E. Washington Blvd., Los Angeles 22, Calif. (Special.)
Elder Trailer & Body Inc., 4830 Race St., Denver 16, Colo.
**Evans Mfg. Co., John, (3 miles south of Hwy. 15A), Sumter, S. C.**
Excel Body Corp., Eaker Field, Durant, Okla. (School and passenger.)
**Farrell Mfg. Co., 804 E. Cass St., Joliet, Ill.** (Public utility.)
**Feigelson Co., Alex., 500 S. Fourth St., Beaumont, Tex.** (Stake and platform.)
**Finn Auto Body Co., 15 W. Charlton St., Cincinnati 19, Ohio.**
**Finnesey Body Co., 811 W. Taney St., Phila. 30, Pa.**
Fort Smith Structural Steel Co., P. O. Box 915, Fort Smith, Ark.
Fox Body Co., 1109 Galenta St., Janesville, Wis.
**Franklin Auto Body & Equipment Corp., 1042** Dean St., Brooklyn, N. Y. (Bus.)
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich. (Aluminum & steel.)
**G & G Mechanical Co., 722 N. Main St., Fort Worth 6, Texas.**
Gar Wood Industries, Inc., Wayne, Mich. (Garbage and rubbish collection unit.)
**General Body Mfg. Co., 713 W. Pennway, Kansas City, Mo.** (Plastic.)
**Gentry Body & Trailer Co., N. Fourth St., Chickasha, Okla.**
Gertenslager Co., Wooster, Ohio. (Bankmobile, bookmobile, display, medical and rescue coach.)
**Giant Mfg. Co., 12th Ave. & S. Sixth St., Council Bluffs, Iowa.** (Farm and City Stake.)
**Gichner Iron Works, Inc., Fred S., 1214-24th St. N. W., Washington 7, D. C.** (Glass industry, soft drink, aluminum utility, etc.)
**Giffel Body Mfg. Co., 845 Lafayette Ave., Terre Haute, Ind.** (Refrigerated.)
**Gindy Mfg. Co., Boot Rd. & Chestnut St., Downingtown, Pa.**
Gordon Metal Products Co., 115 S. Michigan St., Plymouth, Ind. (Utility service.)
Grant Body Mfg. Corp., 5900 E. Admiral Pl., Tulsa, Okla. (Beverage, bottlers, utility, oil field, platform and stake.)
Great Dane Trailers Inc., P. O. Box 1159, Savannah, Ga. (Aluminum.)
**Hackney Bros. Body Co., Goldsboro St., Wilson, N. C.** (Refrigerator, meat, van, dairy, utility and bus.)
Hackney & Sons, J. A., 400 Hackney Ave., Washington, D. C.
Harrisburg Truck Body Co., Sheely Lane & P.RR, Mechanicsburg, Pa.
Heil Co., Dept. 3000 W. Montana St., Milwaukee 1, Wis. (Garbage-refuse.)
Hercules Galion Products, Inc., Galion, Ohio. (Side loading packer type garbage and refuse collection.)
Hercules Mfg. Co., 1 Main St., Henderson, Ky. (Insulated, refrigerated, platform, stake, grain, cattle and combination.)
Hesse Carriage Co., 6700 St. John St., Kansas City, Mo.
**Hews Body Co., 87 St. John St., Portland 4, Maine**
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis. (Public utility.)
Hobbs Trailers Div. of Fruehauf Trailer Co., 609 N. Main St., Fort Worth 1, Tex.
**Hoffman Auto Body Service, Inc., 1480 N. Grant Ave., Columbus, Ohio.** (Insulated & refrigerated.)
**Hoiby Body Co., E., 2010 Washington Ave., N., Minneapolis, Minn.**
**Holan Corp., J. H., 4100 W. 150th St., Cleveland 35, Ohio.** (Public utility.)
**Hooper Body Corp., 31 St. & Warwick Ave.,** Newport News, Va. (Stake, van, etc.)
**Hubbard Mfg. Co., Farmland, Ind.** (Service car.)
Hughes-Keenan Div. U. S. Air Conditioning Corp., P. O. Box 360, Delaware, Ohio.
Hyde Corp., 2936 S. Freeway, Fort Worth, Tex. (Garbage refuse collection.)
Industrial Steel Tank & Body Works, Inc., 2533 Fourth St., Berkeley 10, Calif.
Ingersoll Kalamazoo Div., Borg-Warner Corp., 1810 N. Pitcher St., Kalamazoo, Mich. (Detachable containers for loose bulk material and refuse.)
**Jannell & Son Body Co., Cumberland Hill Rd.,** Woonsocket, R. I. (Steel & aluminum.)
**Jefferson Body Co., 1711-3rd Ave., S., Birmingham 3, Ala.**
**John Bean Div., Food Machinery & Chemical Corp., 1305 S. Cedar St., Lansing 4, Mich.** (Fire fighting equipment)
Johnson Welding & Mfg. Co., Rice Lake, Wis.
**Joplin Body & Trailer Co., 730 E. Fifth St., Joplin, Mo.**
**Kennedy Mfg. Co., 501 N. Monroe St., Streator, Ill.** (Grain, live stock.)
**Kensington Wagon Works, 2756 Frankford Ave., Philadelphia 34, Pa.**
**Kentucky Mfg. Co., 2601 S. Third St., Louisville 8, Ky.**
Kenworth Motor Truck Co., 8801 E. Marginal Way, Seattle 8, Wash. (Bus.)
**Ketter Truck Bodies, Third & Ellison Ave., Ironton, Ohio. "Markette."**
**Kewanee Mfg. Co., 1642 Burlington Ave., Kewanee, Wis.**
Keystone Trailer & Equipment Co., 1501 Guinotte Ave., Kansas City 20, Mo.
Keystone Wagon Works, Inc., C St. & Allegheny Ave., Philadelphia 34, Pa. (also refrigerated)
**Kiley Co., James A., 15 Linwood St., Somerville, Mass.** (Public utility.)
Kingham Trailer Co., 15th & Hill Sts., Louisville 10, Ky.
Klein Body Co., 3280 W. 25th St., Cleveland 9, Ohio (also Public Utility)
Knapheide Mfg. Co., 440 S. 6th St., Quincy, Ill. (Grain, livestock and stake.)
**Koch & Son Mfg. Co., 200 Wilson Ave., N. E.** St. Cloud, Minn.
Koerner Sons, Inc., John, 94 Walton St., Brooklyn 6, N. Y.
**Lacey & Sons Co., W. F., 50 Mystic Ave., Medford 55, Mass.**
**Lagerquist Body Co., 2nd & Keosauqua Sts.,** Des Moines, Iowa (Refrigerated insulated.)
**Lang Co., 267 W. First South St., Salt Lake City 10, Utah.**
**Lewisohn Sales Co., Inc., 4001-15 Dell Ave.,** North Bergen, N. J.
Long Trailer Service, Goldsmith & McKoy Sts., Greenville, S. C. (Van, stake and furniture delivery.)
Lyncoach & Truck Co., Inc., Oneonta, N. Y.
**Maday Body & Equipment Corp., 575 Howard** St., Buffalo 6, N. Y.
M-B Corp., 1615 Wisconsin Ave., New Holstein, Wis. (Garbage and refuse.)
Manley Div., Douglas Motors, Inc., 1234 N. 62nd St., Milwaukee, Wis. (Wreckers.)
Marion Body Works, Maris, Wis. (Delivery.)
Maryland Mfg. Co., Laurel, Md.
**Mayer Body Corp., Paulson & Auburn Sts., Pittsburgh 6, Pa.**
**McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo.** (Service truck.) (Public utility.)
**Meeks Son, S. J., 622 G St., N. W., Washington 1, D. C.**
Mercury Aircraft, Inc., Hammondsport, N. Y.
Metals Body Works, 1246 S. Los Angeles St., Los Angeles, Calif.
**Meyer Body Co., 218 Elm St., Buffalo 3, N. Y.** (Refrigerated.)
**Mickey Body Co., W. F., 105 Perry St., High** Point, N. C. (Sliding door beverage.)
**Midwest Body & Mfg. Div. Electrographic Corp., S. Central St., Paris, Ill.** (Stake, farm and van.)

# 8

Yes, Raybestos offers you 8 different friction materials in the right combinations to suit your requirements . . . giving you greater safety, longer block wear, and better drum life at a lower cost per mile . . . no matter what your equipment or where you operate.

**Raybestos**

**AMERICA'S BIGGEST SELLING FRICTION MATERIAL**

RM

**RAYBESTOS DIVISION of Raybestos-Manhattan, Inc., BRIDGEPORT, CONN.**
RAYBESTOS-MANHATTAN, INC., Brake Lining • Brake Blocks • Brake Fluid • Clutch Facings • Industrial Rubber • Mechanical Packings • Asbestos Textiles • Engineered Plastics • Sintered Metal Products • Rubber Covered Equipment • Laundry Pads and Covers • Abrasive and Diamond Wheels Industrial Adhesives • Bowling Balls

**BODIES—continued**

**Midwest Works, Inc., W. on Highway 54, Augusta, Kans.**
**Miller & Co., A. C., 17 Courtland St., N. E., Atlanta, Ga.**
**Miller-Meteor** Motor Car Div. Divco-Wayne Corp., Bellefontaine, Ohio (Specialized.)
Miller Trailers, Inc., 333 Sixth Ave., W., Bradenton, Fla. (Refrigerated, insulated, freight, van and stakes.)
**Millington Truck Body Co., 8440 N. State St., Millington, Mich. (Insulated, milk, produce, meat, bakery and beer.)**
Minneapolis Freeman Mfg. Co., 5610 W. 36th St., Minneapolis 16, Minn. (Livestock & grain.)
**Modern Auto Body Builders Co., 200 Wal-Worth St., Brooklyn 5, N. Y. (Armored and refrigerated.)**
**Moline Body Co., 222 52nd St., Moline, Ill.**
**Montgomery Co., E. R., 2500 St. Louis St., New Orleans 19, La.**
**Montpelier Mfg. Co., Montpelier, Ohio. "Montpelier." (Parcel delivery and frequent stop.)**
**Morrison Steel Products, Inc., 601 Amherst St., Buffalo 7, N. Y. (Utility and service.)**
**Morse Body Mfg. Co., 69 Howard St., Watertown 72, Mass.**
Morysville Body Works, Inc., 813 S. Reading Ave., Boyertown, Pa. (Utility, line construction, gas bottle, electrical, meter and municipality.)
**Murphy Body Works, Inc., Herring Ave., Wilson, N. C. (Also refrigerator & insulated.)**
**Nabors Co., W. C., Mansfield, La.**
**National Body Mfg. Co., Main St., Knightstown, Ind. (Airport.)**
**National Truck Equipment Co., 1611 Crystal Ave., Kansas City 3, Mo. (Power line and contractors.)**
**New Haven Carriage & Auto Works, 508 N. W. Everett St., Portland 9, Ore.**
**Niederhut Carriage Co., 3560 Walnut St., Denver 5, Colo.**
**Nogues Body Co., 1332 S. Ogden Drive, Los Angeles 19, Calif.**
**Novelty Carriage Works, Inc., 815 Second Ave., Spokane 4, Wash. (Also line, utility, service and bus.)**
**Ohio Body Mfg. Co., New London, Ohio.**
**Olsen & Son, R. P., 920 N. 24th St., Omaha, Neb. (Refrigerated and insulated.)**
**Olson Corp., J. B. E., 1740 Broadway, New York 19, N. Y. (Package delivery for Ford, Dodge, Chevrolet and GMC chassis; van.)**
**Olson & Son, Inc., Chas., 2945 Pillsbury Ave., Minneapolis, Minn.**
**Omaha Standard, 2401 W. Broadway, Council Bluffs, Iowa.**
**Oneida Products Div. Henney Motor Co., Canastota, N. Y. (Steel, aluminum and bus.)**
Pacific Car & Foundry Co., 4th & Factory Sts., Renton, Wash.
Pac Mor Mfg. Co., Loop 13 & Roosevelt Ave., San Antonio, Tex. (Garbage.)
**Parsons Engineering Corp., 4590 Beidler Rd., Willoughby, Ohio. (Public service.)**
**Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn, Pa.**
**Perfection Steel Body Co., S. East St., Galion, Ohio.**
**Pirsch & Sons Co., Peter, 1308 35th St., Kenosha, Wis. (Fire engine.)**
**Press' Sons, Inc., Jacob, 501 W. 33rd St., Chicago 16, Ill.**
**Providence Body Co., 750 Wellington Ave., Cranston, R. I. (Also van.)**
**Quitslund Bodies & Equipment, P. O. Box 396, North Bend, Wash. (Also bus.)**
**R. B. Co., Guinotte & Euclid Sts., Kansas City 20, Mo. (Lumber roll-off.)**
**Reading Body Works, Inc., 420 Gregg Ave., Reading, Pa. (Utility line & line construction.)**
**Reliance Trailer & Truck Co., 2765 16th St., San Francisco 3, Cal.**
Remke Inc., 28100 Groesbeek Hwy., Roseville, Mich.
**Roadway Mounting & Equip. Co., 21177 Mound Rd. (P. O. Box 164), Van Dyke, Mich. (Stake.)**
**Robbins & Burke, Inc., 29 Lansdowne St., Cambridge 39, Mass. (Refrigerated and insulated.)**
**Rock Hill Body Co., W. Main St., Rock Hill, S. C.**
**Santeler Bros., 950 E. Main St., Columbus 5, Ohio (Refrigerated, van, stake, etc.)**
**Scammell & Sons, 116 Quincy Ave., Quincy 69, Mass.**
**Schayer & Badinger, Inc., 2841 Tchoupetoulos St., New Orleans 15, La. (Bottlers', deck and closed panel.)**
**Schmitt & Son, Inc., John V., 314 14th St., S.E., Washington 3, D. C.**
**Schnabel Co., S., 10 & Muriel Sts., Pittsburgh 3, Pa. (Refrigerated or insulated.)**
**Servall Truck Body Mfg. Co., 4838 Cermak Rd., Cicero, Ill.**
**Sharpsville Steel Fabricators, Inc., Sharpsville, Pa. (Fire apparatus, rescue, emergency and squad trucks.)**
Sherman & Co., Earl, 2526 Wood St., Oakland 7, Cal. (Bakery, refrigerated and fire truck.)
Shop of Siebert Associates, Inc., Waterville, Ohio (Bus.)
**Silver Body Works, Inc., 78 Ingraham St., Brooklyn 37, N. Y.**
**Soffe & Son, Morris, 170 W. Berks St., Philadelphia 22, Pa. (Also refrigerated.)**
**Stahl Metal Products, Inc., 3490 W. 140th St., Cleveland 11, Ohio. (Utility.)**
**Standard Auto Body Co., 4900 S. Soto St., Los Angeles 58, Calif.**
**Steffen Body Co., O. F., 613 W. Seventh St., Sioux City 3, Iowa**
**Stewart Steel Products, Inc., 1785 E. New York Ave., Brooklyn 7, N. Y. (Refrigerated, transportation, van, custom built, platform and stake.)**
**Stoughton Cab & Body Co., 408 E. South St., Stoughton, Wis. (Van, stake and refrigerated.)**
Strick Trailers Div., Fruehauf Trailer Co., 5604 N. Broad St., Philadelphia 11, Pa.
**Superior Auto, Inc., 24 Sprague St., Dayton 7, Ohio. (Utility.)**
Superior Coach Corp., E. Kibby St. & D. T. & I. R. R., Lima, Ohio. (Service car.)
**Swab Wagon Co., 21 S. Callowhill St., Elizabeth, Pa. (Refrigerated & chick vans.)**
**Theurer Wagon Works, Inc., 601 W. 56th St., New York 19, N. Y.**
**Thomas & Co., Peter, 1320 Main St., Seattle 22, Wash. (Also bus.)**
Thomas Car Works, Inc., Perley A., High Point, N. C. (Bus.)
Thompson Trailer Corp., 2 Old Court Road, Pikesville, Md. (Public utility, package delivery.)
**Thornton Mfg. Co., 10th & Montgomery Ave., Phila., Pa.**
**Timpte Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.**
**Time Saver Body Co., 3035 E. Grand Blvd., Detroit 2, Mich.**
Towner Mfg. Co., Box 264, Santa Aan, calif. (Refuse.)
**Traffic Body Co., 5301 N. 2nd St., St. Louis, Mo. (Stake and panel.)**
**Trailco Mfg. & Sales Co., Mill St., Hummels Wharf, Pa.**
Transport Products Co., 3815 Clark St., Cleveland 9, Ohio. (Public utility.)
**Travelodge Corp., 65 N. Madison St., Tulsa, Okla. (Wood and steel.)**
**Triangle Body Works, 2012 Waughton Rd., Winston-Salem 6, N. C. (Stake and van.)**
**Truck & Trailer Industries, Inc., 611 Jackson Ave., New York 55, N. Y.**
**Truck Engrg. Co., 3200 E. Pontiac St., Fort Wayne 4, Ind. (Utility.)**
**Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio.**
Truck Parts & Equipment Inc., 82 E. Harry St., Wichita, Kans. (Oil field.)
**Truck Welding & Equipment Co., 739 Ninth Ave., N., Seattle 9, Wash. (Steel flat deck.)**
**Union City Body Co., W. Pearl St., Union City, Ind. (Parcel delivery for GMC, Chevrolet, Ford and Dodge.)**
Unisteel Body Co., Div. of Hercules-Galion Products, Inc., 605 W. Market St., Galion, Ohio. (Steel & aluminum van.)
**Utility Body Co., 1530 Wood St., Oakland 7, Calif.**
Utility Trailer Mfg. Co., P. O. Box F-1, City of Industry, Calif.
**Utility Tool & Body Co., 151 E. 16th St., Clintonville, Wis. (Public utility, line construction, platform, etc.)**
**Veenema & Wiegers, Inc., 241 N. Tenth St., Paterson 2, N. J.**
**Wade & Dunton, Inc., 686 Main St., Lewiston, Maine. (Custom built.)**
**Wall Mfg. Co., 636 S. Stratford Rd., Winston-Salem, N. C.**
**Walsh Body Sales Corp., 92-96 Prospect St., Somerville 43, Mass.**
Ward Body Works, Inc., 805 Harkrider St., Conway, Ark. (School and passenger bus.)
**Ward Motor Vehicle Co., 718 S. Fulton Ave., Mt. Vernon, N. Y. (Aluminum.)**
Wayne Works Div., Divco-Wayne Corp., 1500 N. F St., Richmond, Ind. (Bus.)
**Weber Trailer & Mfg. Co., 8400 E. Slauson Ave., Rivera, Calif. (Mailing address, P. O. Box 2473, Los Angeles 54, Calif.)**
Weir Body Co., 4505 Cuming St., Omaha 3, Nebr.
**Welch Mfg. Co., 533 W. Jefferson St., Phoenix, Ariz.**
**Weld-Built Body Co., 5903 Preston Court, Brooklyn 34, N. Y. (Wreckers.)**
**Wentworth & Irwin Inc., 123 N. E. Oregon St., Portland 14, Ore.**
Weston Dump Body Co., 326 W. 11th St., Des Moines 9, Iowa.
**White Metal Rolling & Stamping Corp., Whitelight Magnesium Div., 376 Lafayette St., New York 3, N. Y.**
**Williamsen Body & Equipment Co., Ninth & Wall Sts., Ogden, Utah.**
**Winter-Weiss Co., 2001 Blake St., Denver 5, Colo.**
**Wright Co., Thomas, 185 Dey St., Jersey City 6, N. J.**
**Yancey Bros., 110 Jackson St., N. E., Atlanta, Ga.**
Yankee Motor Bodies Corp., 122 E. Olympic St., Los Angeles 2, Calif. (Oil field & utility.)
**York-Hoover Corp., Body Div., Wheatfield St. & M. P. R. R., York, Pa. (Also public utility.)**

**BODIES, Commercial, Prefabricated**

ALF Body Corp., 4400 Clayton Blvd., St. Louis 10, Mo.
**Aluminum Body Corp., 1600 W. Washington Blvd., Montebello, Calif.**
**Black & Sons, Inc., Adam, 276 Tonnele Ave., Jersey City 6, N. J.**
**Brunswick Body Works, U. S. Route 1, New Brunswick, N. J.**
Clark Equipment Co., Brown Trailer Div., Buchanan, Mich. (Aluminum.)
**De Hart & Son, H. A., Crown Pt. Rd., Thorofare, N. J.**
**Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.**
**Gichner Iron Works, Inc., Fred S., 1214 24th St., N. W., Washington 7, D. C.**
**Hews Body Works, 87 St. John St., Portland 4, Maine**
Lindsay Structure Div. International Steel Co., 1321 Edgar St., Evansville, Ind.
Lyncoach & Truck Co., 443 Chestnut St., Oneonta, N. Y. (Aluminum.)
**Mayer Body Corp., Paulson & Auburn Sts., Pittsburgh 6, Pa.**
Morrison Service Body Div. Morrison Steel Products, Inc., 681 Amherst St., Buffalo 7, N. Y.
**Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa. (Sections.)**
**Servall Truck Body Mfg. Co., 4838 Cermak Rd., Cicero, Ill.**

**BODIES, Dump**

**Aluminum Body Corp., 1600 W. Washington Blvd., Montebello, Calif.**
**Anthony Co., Streator, Ill.**
Auto Truck Steel Body Co., 3040 Carroll Ave., Chicago 12, Ill.
**Baughman Mfg. Co., Shipman Rd., Jerseyville, Ill. (Self-unloading.)**
**Black & Sons, Inc., Adam, 276 Tonnelle Ave., Jersey City 6, N. J.**
**Clark Co., B. M., Union, Maine.**
**Converto Mfg. Co., Third & Green Sts., Cambridge City, Ind.**
**Cook Bros. Equip. Co., 3334 San Fernando Rd., Los Angeles 65, Calif.**
**Cresci, A., & Son, Boulevard & Grape Sts., Vineland, N. J.**
Daybrook Hydraulic Div. Young Spring & Wire Corp., Bowling Green, Ohio.
**Dempster Bros., Inc., Box 3127, Knoxville, Tenn. (Detachable containers.)**
**Easton Car & Construction Co., Liberty & Holly Sts., Easton, Pa. (Heavy duty.)**
**Feigelson Co., Alex, 500 S. 4th St., Beaumont, Tex.**
Fontaine Truck Equipment Co., 1232 N. 37th Pl., Birmingham, Ala.
**Gar Wood Industries, Inc., Wayne, Mich. (Garbage and rubbish collection unit.)**
**Gate City Steel-Boise, Inc., 4000 Warm Springs Ave., Boise, Idaho**
**General Body & Hoist Co., Paris & Garvey Sts., Everett 49, Mass.**
**Gichner Iron Works, Inc., Fred S., 1214-24th St., N. W., Washington 7, D. C.**
**Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.**
**Hercules Galion Products, Inc., Galion, Ohio.**
**Independent Iron Works, Eighth & Pine Sts., Oakland 20, Calif.**
**Lang Co., 267 W. First South St., Sale Lake City 10, Utah.**
Lodestar Corp., S. Main St., Niles, Ohio.

# Good fleet shop practice pays off with GENUINE SCHRADER TIRE GAUGES AND AIR SERVICE

Flat-catching shop practices are economical, simple, and especially effective for fleets, where time is money. Take these three steps:

1. **Gauge and record** air pressures each day with Schrader Service Gauges. *Seal* air in with Schrader Caps and Cores.
2. **Watch** for unusual pressure drops, and fix tires *before* they go flat.
3. **Certify the accuracy** of your "every day" gauging-inflating equipment with Schrader 8106B Trutest Special Gauge.

And, remember, Schrader Chucks, Couplers, Chuck Gauges and Accessories help airlines operate faster and better. Specify genuine Schrader Tire Valves, Cores and Sealing Caps which are guaranteed airtight even at 250 pounds pressure. Profit with complete air service.

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FIRST NAME IN TIRE VALVES
FOR ORIGINAL EQUIPMENT AND REPLACEMENT

# NEW CHEVROLET

## New Might... New Models!

**Task-Force 59 brings you more to work and save with in every weight class—more models, thriftier engines, stronger cabs and frames, safer brakes, tougher axles and transmissions! Here's the longest, strongest line of Chevrolet trucks ever built, the best yet of the best sellers!**

**Good news in the light-duty class!** Chevy's longer, stronger '59 line gives you a *dozen* big pickups to choose from . . . new 4-wheel drive models, newly fashioned panels, Step-Vans, and Sedan Deliveries! Scores of innovations include new hard-pulling Positraction rear axle, new bigger brakes, new stronger cabs, new broad-shouldered styling refinements!

**Bright new middleweight and heavyweight might!** New Series 50H and 60H models with heavy-duty components give G.V.W.'s up to 21,000 lbs. . . . while new Low Cab Forward trucks in Series 50 and 70 make pulling maximum-length trailers easier and more economical than it's ever been before! There are new 5-speed transmissions for extra pulling power; here, too, are huskier, longer lasting clutches; 15,000-lb. rear axle with new durability features—and mammoth 16,000- and 18,000-lb. rear axles.

**New thriftier 6's, all-new V8 power!** Chevy's best selling 6's are set to pinch pennies like never before with new camshaft design, new valve train durability . . . horsepower and torque to spare! *Six* big V8's match short-stroke power to your job; they're even tougher built and more reliable for '59, with high horsepower ratings that range from 160 to 230. And an *all-new* V8—the 185-h.p. Workmaster Special* is available in Series 70 and 80 models.

See the bright new trucks of Task-Force 59 at your Chevrolet dealer's now! . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

**Optional at extra cost.*

CHEVROLET

# TRUCKS FOR '59!

## New Money-Saving Power!

# CHEVROLET TASK·FORCE 59 TRUCKS

**BODIES—continued**

Maday Body & Equipment Corp., 575 Howard St., Buffalo 6, N. Y.
Marion Metal Products Co., Cheney Ave., Marion, Ohio
Mayer Body Corp., Paulson & Auburn Sts., Pittsburgh 6, Pa.
Montgomery Co., E. R., 2500 St. Louis St., New Orleans 19, La.
National Truck Equipment Co., 1611 Crystal Ave., Kansas City 3, Mo.
Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn, Pa.
Perfection Steel Body Co., S. East St., Galion, Ohio. (Steel and aluminum.)
Press' Sons, Inc., Jacob, 501 W. 33rd St., Chicago 16, Ill.
Providence Body Co., 750 Wellington Ave., Cranston, R. I.
Roadway Mounting & Equip. Co., 21177 Mound Rd., Van Dyke, Mich.
Roehlk Spring & Body Co., 417 S. 15th St., St. Louis 3, Mo.
Schnabel Co., S., 10 & Muriel Sts., Pittsburgh 8, Pa.
Sicard Industries, Inc., 753 W. Main St., Watertown, N. Y. (Refuse collection.)
Standard Auto Body Co., 4900 S. Soto St., Los Angeles 58, Calif. (Hydraulic.)
Superior Auto, Inc., 24 Sprague St., Dayton 7, Ohio.
Superior Metal Products, Inc., Branson & 18th Sts., Marion, Ind.
Thomas & Co., Peter, 1320 Main St., Seattle 22, Wash.
Timpte Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.
Truck Engineering Co., 3200 E. Pontiac St., Fort Wayne 4, Ind.
Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio.
Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y.
Truck Welding & Equipment Co., 739 Ninth Ave., N., Seattle 9, Wash.
Welch Mfg. Co., 533 W. Jefferson St., Phoenix, Ariz.
Weston Dump Body Co., 326 W. 11th St., Des Moines 9, Iowa.
Williamsen Body & Equipment Co., 9th and Wall Sts., Ogden, Utah. (Aluminum and steel.)

**BODIES, TANK, See Tanks, Trailer and Truck**

**BODY HOISTS, See Hoists, Truck Body**

**BODY PARTS, Pre-Shaped**

(See also Hardware, Truck Body)

Anzick Auto Body Parts Co., 23675 Mound Rd., Van Dyke, Mich.
Bath & Co., Cyril, Metal Form Div., 32280 Aurora Rd., Solon, Ohio.
Binkley Mfg. Co., Warrenton, Mo.
Boardman Co., 1401 S. W. 11th St., Oklahoma City, Okla.
Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.
Cook Metal Works, 837 S. Campbell Ave., Mishawaka, Ind. (Roof caps for cabs, buses, trucks and trailers.)
Crown Steel Products Co., Orrville, Ohio.
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., 2734 Tennyson Rd., Cleveland 4, Ohio.
Edwards Co., Inc., O. M., Syracuse 4, N. Y. (Insulated window.)
Excel Corp., 1120 N. Main St., Elkhart, Ind.
Hart Metal Products Corp., 3306 Hammond St., Elkhart, Ind. (Corner posts, roof bows and caps, rut rails, etc.)
Hill Auto Body Metal Co., 700 W. 6th St., Cincinnati, Ohio.
Holan Corp., J. H., 4100 West 150th St., Cleveland 11, Ohio.
Hutchins Mfg. Co., 9728 Breckenridge Ave., St. Louis 14, Mo. (Panels, etc.)
Indianapolis Power Hammer Works, 309 W. Maryland St., Indianapolis, Ind.
Kinnear Mfg. Co., 2100 Fields Ave., Columbus 16, Ohio.
Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio.
Lewgust Corp., 4001 Dell Ave., No. Bergen, N. J.
Lindsay Structure, Inc., 5000 W. Dempster St., Skokie, Ill.
Metalcraft Automotive Div. Inc. of Metalcraft Engrg. Corp., Box 386, North Side Branch, Atlanta, Ga.
Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill.
Midwest Body & Mfg. Div., Electrographic Corp., S. Central St., Paris, Ill.
Miner, W. H., Inc., Rookery Bldg., Chicago, Ill. (Door hinges.)
Monroe Mfg. Co., 2525 S. Dort Highway, Flint 7, Mich. (Platforms.)
Ill.
Nash Bros. Co., 2125 Dewey Ave., Evanston, Ill.
Parish Pressed Steel Div. of Dana Corp., Robeson & Weiser Sts., Reading, Pa.
Randall Co., 5000 Spring Grove Ave., Cincinnati 32, Ohio. (Roof bows.)
Rex Metal Parts Co., 1295 W. 78th St., Cleveland 2, Ohio.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio. (Fender braces and bolts.)
Truck-A-Door Co., 33 Henry St., Detroit 1, Mich.
Youngstown Steel Car Corp., Niles, Ohio. (Dye-pressed channels, presswork.)

**BONDERS, Brake Lining**

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Fostoria Pressed Steel Corp., N. Main St., Fostoria, Ohio. (Ovens.)
Grigg Specialty Tools, 8103 Marbrisa Ave., Huntington Park, Calif.
Grizzly Mfg. Div. of Mar Pro Inc., 700 W. Caroline St., Paulding, Ohio.
Huppert Co., K. H., 6830 Cottage Grove Ave., Chicago 37, Ill.
Lapeer Mfg. Co., 3056 Davidson Rd., Lapeer, Mich.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Permafuse Corp., 675 Main St., Westbury, N. Y.
Westbrook Industries, Inc., 140 Malvern St., Newark 5, N. J.

**BOOSTERS, BRAKE, See Brakes, Vacuum**
**BOOSTERS, STEERING, See Gears, Steering, Booster Units**

**BOOTHS, Paint Spraying**

Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Black Mfg. Co., 403 Penn St., Baltimore 30, Md.
Burdett Mfg. Co., 4920 S. Monitor St., Chicago 38, Ill.
Cincinnati Cleaning & Finishing Machinery Co., 317 Hecla St., Ironton, Ohio.
De Vilbiss Metal Lubricators Co., 17900 Ryan Rd., Detroit 12, Mich.
M & E Mfg. Co., 2571 Winthrop Ave., Indianapolis 5, Ind.
Mahon Co., R. C., 6565 E. Eight Mile Road, Detroit 34, Mich.
Metallizing Engrg. Co., 1101 Prospect Ave., Westbury, N. Y.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Schmieg Industries, Inc., 29330 Sherwood St., Detroit 34, Mich.
Spray Engineering Co., 100 Cambridge St., Burlington, Mass.
Young & Bertke Co., 2212 Breck St., Cincinnati 22, Ohio.

**BORING BARS, See Tools, Cylinder Re-boring**
**BORING MACHINES, See Machines, Boring**
**BRAKE Drums, See Drums, Brake**

**BRAKE LEVERS, Emergency**

Orschelin Brake Lever Mfg. Co., 335 N. Williams St., Moberly, Mo. (Emergency brake lever.)
Power Brake Equipment Company, 1632 S.E. 11th Ave., Portland 14, Ore.

**BRAKE LINING, See Lining, Brake**
**BRAKE LINING GRINDERS, See Grinders, Brake Lining and Shoe**
**BRAKE LOCKS, See Locks, Brake, Hill Holding**
**BRAKE PARTS, See Parts, Brake**
**BRAKE RELINING MACHINES, See Machines, Brake Relining; also Bonders, Brake Lining.**
**BRAKE SHOES, See Shoes, Brake**
**BRAKE VALVES, See Valves, Air Brake; Brakes, Air; Brakes, Emergency Systems and Valves**

**BRAKES, Air**

Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich. (Disc.)
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio. (Also accessory units for trucks and buses.)
Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.
Fawick Brake Div., Fawick Corp., 9921 Clinton Rd., Cleveland 9, Ohio.
Hoppenstand Brake Corp., 1600 Water St., Conneautville, Pa.
Midland Ross Corp., Owosso Div., 490 S. Chestnut St., Owosso, Mich.
Power Brake Equipment Company, 1632 S.E. 11th Ave., Portland 14, Ore.
Rockwell-Standard Corp., Brake Div., P. O. Box 358, Ashtabula, Ohio.
Shuler Axle Co., Inc., Louisville, Ky.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

**BRAKES, Compression, Exhaust**

Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.

**BRAKES, Electric**

Warner Brake & Clutch Co., Beloit, Wis. (Truck.)

**BRAKES, Emergency, Systems & Valves**

(See also Brakes, Air)

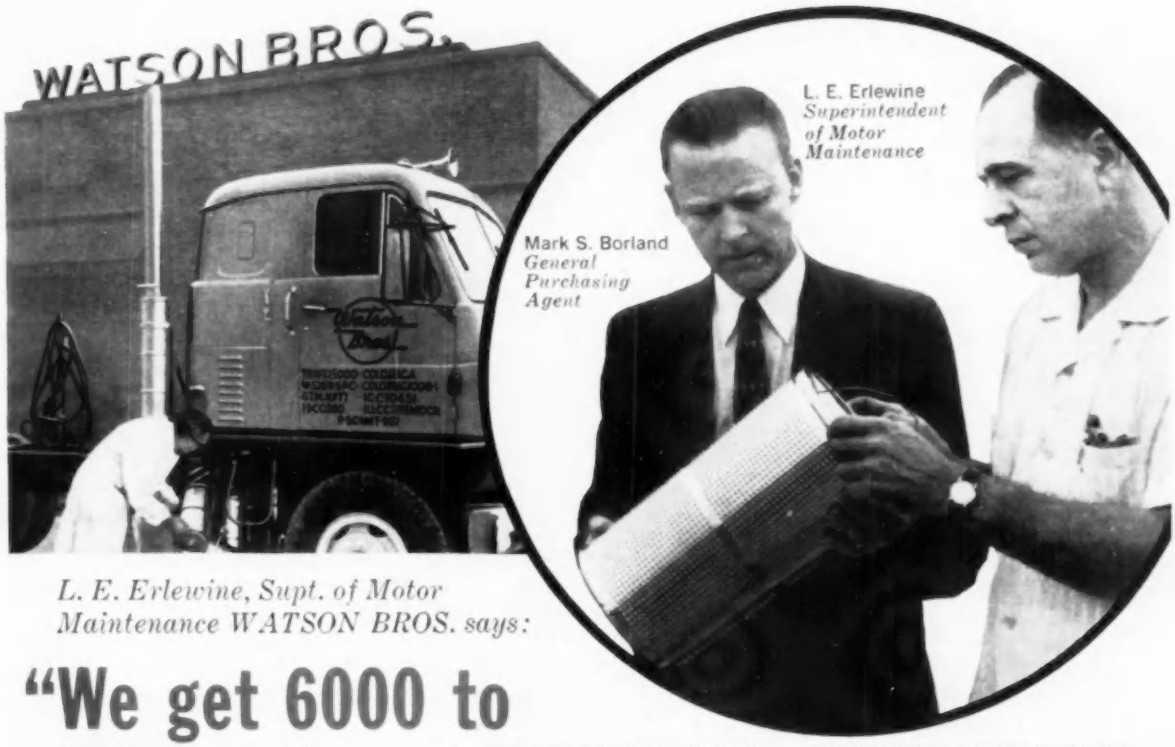
Airbrake Accessories, Inc., 155 N. Ada St., Chicago 7, Ill. (Valve.)
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Berg Mfg. & Sales Co., Inc., 1712-14 S. Michigan Blvd., Chicago 16, Ill.
Eveready Emergency Brake Co., Inc., Investment Bldg., Pittsburgh 22, Pa.
Fawick Brake Div., Fawick Corp., 9921 Clinton Rd., Cleveland 9, Ohio. (Hydro-Air dual system.)
George Mfg. Co., 10 W. Harvey St., Philadelphia, Pa. (Valve, check & line.)
K & B Mfg. Co., 17 E. Reno St., Oklahoma City, Okla.
Keehn-O Mfg. Co., 1709 Cleveland Ave., Santa Rosa, Calif. (Valve.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. (System.)
The McKee Engineering Co., Corry, Pa.
Maxi Corp., P. O. Box 3129 Terminal Annex, Los Angeles 54, Calif.
Midland Steel Products Co., 2641 E. Milwaukee Ave., Detroit 11, Mich.
Minnesota Automotive Inc., 1101 North Front, Mankato, Minn.
Monroe Standard, Inc., Wyandot Bldg., Galion, Ohio. (Warning device.)
Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.
Robinson Products, Inc., 16550 Wyoming Ave., Detroit 21, Mich.
Seale, Homer T., 5330 Alhambra Ave., Los Angeles 32, Cal.
Talco Engineering Co., Inc., 2685 State St., Hamden, Conn.
Vari-Products Co., 2450 S. Prairie Ave., Chicago 16, Ill. (Vacuum reserve tank.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Warner Electric Brake & Clutch Co., P. O. Box 620, Beloit, Wis.

**BRAKES, Hydraulic**

Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. (Disc.)
Bendix Products Div., Bendix Products Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Fawick Brake Div., Fawick Corp., 9921 Clinton Rd., Cleveland 11, Ohio.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Martin Co., Glenn L., Baltimore 3, Md.
Minnesota Automotive Inc., 1101 North Front, Mankato, Minn.
Rockwell-Standard Corp., Brake Div., P. O. Box 358, Ashtabula, Ohio.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

**BRAKES, Mechanical**

American Chain & Cable Co., Automotive & Aircraft Div., 601 Stephenson Bldg., Detroit 2, Mich. (Disc.)




*L. E. Erlewine, Supt. of Motor Maintenance WATSON BROS. says:*

# "We get 6000 to 8000 miles of EFFECTIVE FILTRATION from a single DIESELPAK"*

**Here's powerful proof that superior performance COSTS LESS than ineffective substitutes**

Only LUBER-FINER DIESELPAK, with its *exclusive* specially processed media, removes oil contaminants *effectively*—FAR LONGER THAN ANY SUBSTITUTE PACK.

DIESELPAK—designed expressly for use with H.D. detergent compounded oil—removes not only injurious suspended solids, but also colloidal impurities (often more destructive) *without affecting the additives.*

Thus LUBER-FINER DIESELPAK

1. COSTS LESS than ineffective substitutes because it gives MORE MILES of *effective filtration.*
2. Also ADDS THOUSANDS OF MILES to ENGINE AND OIL LIFE because its exclusive engineered protection CLEANS OIL FASTER AND KEEPS IT CLEAN LONGER.

**STANDARD AND OPTIONAL EQUIPMENT**—On leading Diesel Trucks, Tractors and Stationary Engines.

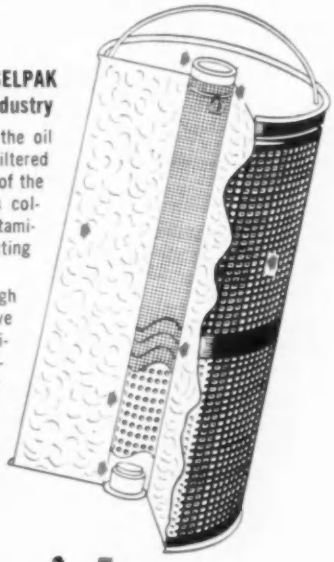
* A typical statement of many users, engineers, and original equipment manufacturers on file.

**VISUAL PROOF why DIESELPAK is The Standard of the Industry**

Positive end seals prevent the oil from by-passing. The oil is filtered through the patented media of the DIESELPAK which removes colloidal particles and other contaminants without adversely affecting the additives.

The oil then passes through several layers of protective fibrous material which is scientifically engineered to positively prevent media from migrating into the engine.

World renowned engineered protection is enjoyed only by the users of the genuine LUBER-FINER "DIESELPAK."



Luber finer

**WRITE FOR INFORMATION**—how to get MORE MILES of effective lubrication at LESS COST. Dept. B-2.

**LUBER-FINER, INC.**
2514 South Grand Avenue, Los Angeles 7, California

**BRAKES—continued**

Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. (Disc.)
Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Fawick Brake Div., Fawick Corp., 9921 Clinton Rd., Cleveland 11, Ohio.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind.

**BRAKES, Trailer**

Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Fawick Brake Div., Fawick Corp., 9921 Clinton Rd., Cleveland 11, Ohio.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.
Kay-Brunner Steel Products, Inc., 999 Meridan Ave., Alhambra, Calif. (Mechanical.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Midland-Ross Corp., Owosso Div., 490 S. Chestnut St., Owosso, Mich.
Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.
Rockwell-Standard Corp., Brake Div., P. O. Box 359, Ashtabula, Ohio.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky. (Mechanical, vacuum or air.)
Spencer Safford Loadcraft, Inc., Augusta, Kan.
Standard Forge & Axle Co., Hunter Station, Montgomery 2, Ala. (Vacuum or air.)
United Mfg. Co., 5250 Dobeckmun Ave., Cleveland 2, Ohio. (Hydraulic.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. (Air.)
Warner Brake & Clutch Co., Beloit, Wis. (Electric.)

**BRAKES, Vacuum Power**

Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Fawick Brake Div., Fawick Corp., 9921 Clinton Rd., Cleveland 11, Ohio.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Midland-Ross Corp., Owosso Div., 490 S. Chestnut St., Owosso, Mich.
Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Velvac, Inc., 3534 W. Pierce St., Milwaukee 4, Wis.

**BREAKAWAY VALVES, See Brakes, Emergency Systems and Valves**
**BREAKER ARMS, See Parts, Ignition**
**BREAKER POINTS, See Points, Ignition**

**BREAKERS, Circuit**

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Bulldog Electric Products Co., 7610 Jos Campau Ave., Detroit 32, Mich.
Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite."
F & B Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y.
Heinemann Electric Co., Pa. Ave. & Plum St., Trenton 2, N. J.
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio
Littlefuse, Inc., 4757 Ravenswood Ave., Des Plaines, Ill.
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Reynolds Mfg. Co., 1419 Alamo National Bldg., San Antonio 5, Tex.
Spencer Thermostat Div., Metals & Controls Corp., 34 Forest St., Attleboro, Mass.
Square D Co., 6060 Rivard St., Detroit 11, Mich.
Tung-Sol Electric Co., 95 Eighth Ave., Newark 4, N. J.
Underwriters Safety Device Co., 4642 N. Lamon St., Chicago 30, Ill.
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis.
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh, Pa.

**BRUSHES, Carbon Removing**

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Herold Mfg. Co., 3927 Clark Ave., Cleveland 9, Ohio.
Keystone Reamer & Tool Co., Millersburg, Pa.
Manufacturers Brush Co., 12501 Elmwood Ave., Cleveland, Ohio.
Miller Co., L. B., 336 W. Main St., Stamford, Conn.
Millers Falls Co., Greenfield, Mass.
Milwaukee Brush Mfg. Co., 2326 N. 30th St., Milwaukee 45, Wis.
Morris Co., C. W., 10628 Cloversdale Ave., Detroit 4, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Osborn Mfg. Co., 5401 Hamilton Ave., N. E., Cleveland 14, Ohio.
Pittsburgh Plate Glass Co. (Brush Div.), 3221 Frederick Ave., Baltimore 29, Md.
Rinck-McIlwaine, Inc., 16 Hudson St., New York, N. Y.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.
Wilde Drop Forge & Tool Co., 2938 Fairmount Ave., Kansas City, Mo.
Worcester Brush & Scraper Co., 38 Austin St., Worcester, Mass.

**BRUSHES, Fountain, See Washers, Fountain Brushes & Mops**

**BRUSHES, Generator, Horn and Starter**

American Motor Products Co., Fond du Lac, Wis.
Becker Brothers' Carbon Co., 3450 S. 52nd Ave., Cicero 50, Ill. (Generator and starter.)
Carbone Co., Myrtle Ave., Boonton, N. J.
Echlin Mfg. Co., U. S. Route 1, Branford, Conn. (Generator and starter.)
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Generator and starter.)
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y.
International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Keystone Carbon Co., 1935 State St., St. Marys, Pa.
Machine Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. (Generator and starter.)
Morganite Inc., 3302 48th Ave., Long Island City 1, N. Y.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Generator & starter.)
Ohio Carbon Co., 12508 Berea Rd., Cleveland 11, Ohio.
P. & D. Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. (Generator and starter.)
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Generator and starter; sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa.
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill. (Starter and generator.)
Sorensen Mfg. Co., P., 52-31 57th St., Woodside 77, N. Y. (Generator and starter.)
Speer Carbon Co., St. Marys, Pa.
Stackpole Carbon Co., Tannery St., St. Marys, Pa.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. (Generator and starter.)
Tasco Products Div. of Guaranteed Parts Co., Seneca Falls, N. Y. (Generator and starter.)
Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y.
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis. (Generator and starter.)
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 20, N. Y.

**BRUSHES, WASHING, See Washers, Fountain Brushes and Mops.**

**BUFFERS, Portable, Electric**

Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo.
Big Four Industries Inc., 5938 Carthage Court, Cincinnati, Ohio.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio. (P. O. Box 966.)
Chicago Pneumatic Tools Co., 6 E. 44th St., New York 17, N. Y. (Pneumatic.)
Clark Sanding Machine Co., 30 E. Clay Ave., Muskegon, Mich.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.
Wilson, Inc., K. R., Arcade, N. Y.

**BUFFERS, Tire, Electric**

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif.
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa.
Kehawke Mfg. Co., 718 S. Elliot St., Muncie, Ind.
Reuland Electric Co., 3001 W. Mission Rd., Alhambra, Calif.
Super Mold Corp. of Calif., 420 N. Sacramento St., Lodi 2, Calif.
U. S. Electrical Motors, Inc., 200 E. Slauson Ave., Los Angeles 54, Calif.

**BULBS, See Lamps, Bulbs, Miniature, Incandescent**

**BUMPERS**

Bath Co., Cyril, 32280 Aurora Rd., Solon, Ohio.
Electric Auto-Lite Co., Toledo 1, Ohio.
Graves Mfg. Co., 200 Court St., Clinton, Ohio. (Bumper hitch.)
Houdaille Industries, Inc., Chicago Div., 1455 W. 38th St., Chicago 9, Ill.
Houdaille Industries, Inc., Detroit Div., 2660 E. Grand Blvd., Detroit 11, Mich.
Hutchinson Co., 5931 St. Vincents Ave., Shreveport, La. (Rear, for light trucks.)
Michigan Bumper Corp., 740 Ann St., Grand Rapids, Mich.
Nash Bros. Co., 2125 Dewey Ave., Evanston, Ill. (Steel for trucks and buses.)
Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa.
Rheem Automotive Co., 4951 Alcoa Ave., Los Angeles 58, Calif.
Rockwell-Standard Corp., Bumper Div., 843 Fourth Ave., Coraopolis, Pa.

**BUSES**

Available Truck Co., Div. of Crane Carrier Corp., P. O. Box 5008, Tulsa, Okla. (Gasoline or Diesel.)
Beck & Co., C. D., Sidney, Ohio.
Blue Bird Body Co., Fort Valley, Ga.
Checker Motors Corp., 2016 N. Pitcher St., Kalamazoo, Mich.
Chevrolet Motor Div. of General Motors Corp., General Motors Corp., Detroit 2, Mich. (Chassis only.)
Coachette Co., 11844 East Northwest Highway, Dallas 18, Texas.
Crown Coach Corp., 2500 E. 12th St., Los Angeles 21, Calif. (Gasoline and Diesel.)
Dodge Div. Chrysler Corp., 7900 Joseph Campau Ave., Detroit 31, Mich. (School.)
Federal Motor Truck Co., 834 N. Seventh St., Minneapolis 11, Minn.
Fitzjohn Coach Co., Muskegon, Mich.
Flxible Co., 326 N. Water St., Loudonville, Ohio. (Intercity.)
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.
Gillig Bros., 124 El Dorado St., (P. O. Box 330), Hayward, Calif.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill. (School.)
Mack Mfg. Corp., 1355 W. Front St., Plainfield, N. J. (Gasoline and Diesel.)
Marmon-Herrington Co., Inc., 1511 W. Washington St., Indianapolis 7, Ind. (Trolley coaches.)
Oneida Products Corp., Canastota, N. Y.

"We standardize on MoPar," says Mr. Baird, center, with Plant Superintendent George R. Arnold and Garage Superintendent Vernon D. Meyer.

"This is where we get the proof that MoPar pays—and we put MoPar to work for us here every day of the week," adds Garage Superintendent Meyer.

"To keep 64 Dodge Trucks operating almost 10 hours every day with a minimum of down time is no small order. MoPar *fills* it," Mr. Meyer points out.

# "MoPar means nearly 25% less down time for our fleet . . . our maintenance records prove it"

*says Clayton D. Baird, General Manager—Mrs. Baird's Baking Co., Houston, Texas*

"In our bakery business, it's doubly important to have our fleet rolling with a minimum of down time. We've built a reputation for prompt delivery and our customers depend on it," adds Mr. Baird.

"We keep our fleet of 64 Dodge Trucks operating at top efficiency by using MoPar replacement parts in our preventive maintenance program. Our service men know that MoPar means original factory equipment specifications. They know, too, that they get Chrysler Corporation guaranteed fit and performance every time—and they know their installation time is held to a minimum.

"Our maintenance records prove that by using MoPar parts exclusively, we've cut our down time nearly 25 per cent. And the prompt service we get from our local MoPar Wholesaler means immediate availability of *any* part we need and less shop space tied up in inventory."

*the smartest buyers are sold on the best—MoPar*

**MoPar Division**
**Chrysler Motors Corporation**
**Detroit 31, Michigan**

MoPar

**PARTS AND ACCESSORIES**

**BUSES—continued**

Reo Div. White Motor Co., 1331 S. Washington St., Lansing 20, Mich. (Gasoline and diesel school.)
St. Louis Car Co., 8000 N. Broadway, St. Louis 15, Mo. (Electric, also trolley coaches.)
Southern Coach Mfg. Co., Evergreen, Ala.
Studebaker-Packard Corp., Studebaker Div., 635 S. Main St., South Bend 27, Ind. (Chassis only.)
Superior Coach Corp., E. Kibby St. & D. T. & I. R. R., Lima, Ohio. (School.)
Wayne Works, Inc., 1500 N. F St., Richmond, Ind.
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio. (School.)

**BUSHINGS. See Bearings and Bushings**

## CABINETS, Accessories and Parts

Angle Steel Co., 56 Oak St., Plainwell, Mich.
Bay Products, Inc., 3001 N. 16th St., Philadelphia 2, Pa.
Berger Div. Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio.
Bernard Franklin Co., Hedley & Bath Sts., Philadelphia 37, Pa.
Buxbaum Co., 1212 Seventh St., S. W., Canton 1, Ohio.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Equipto Div., Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill.
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio.
Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.

## CABLE, Brake Control, with Conduit

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. (Emergency.)
American Chain & Cable Co., Automotive & Aircraft Div., 601 Stephenson Bldg., Detroit 2, Mich.
Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Eis Automotive Corp., Middletown, Conn.
Gwilliam Co., 360 Furman St., Brooklyn 2, N. Y.
Lisle Corp., Brake Div., 805 E. Main St., Clarinda, Iowa.
Midland-Ross Corp., Owosso Div., 490 S. Chestnut St., Owosso, Mich.

## CABLE, Ignition, Starting and Lighting

**(In bulk, length on spools, rolls, etc.)**

American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Berg Mfg. & Sales Co., 1712 S. Michigan Ave., Chicago 16, Ill. (Lighting for trailers.)
Cole-Hersee Co., 20 Old Colony Ave., Boston, Mass.
Copperweld Steel Co., Flexo Wire Div., 70 W. First St., Oswego, N. Y.
Crescent Co., Pawtucket, R. I.
Electric Auto-Lite Co., Toledo 1, Ohio.
Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.
General Cable Corp., 420 Lexington Ave., N. Y. 17, N. Y.
Jordan Electrical Products Div., Electric Storage Battery Co., 222 N. 2 St., Minneapolis 1, Minn.
Lenhart Mfg. Co., Hamburg, Pa.
Monarch Insulated Wire Co., 178 Central Ave., Hackensack, N. J.
Ohio Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Packard Electric Div., General Motors Corp., Warren, Ohio.
Realflex Products Co., 335 38th St., Brooklyn 32, N. Y.
Royal Electric Corp., 95 Grand Ave., Pawtucket, R. I.
Sittler Corp., 18 N. Ada St., Chicago 7, Ill.
Sorenson Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
Triple-A-Specialty Co., 2835 N. Western Ave., Chicago 18, Ill.
United Motors Service, General Motors Bldg., Detroit 2, Mich.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Velvac, Inc., 3534 W. Pierce St., Milwaukee 15, Wis.
Walker Bros., Automotive Wire & Cable Div., River & End Sts., Conshohocken, Pa.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
White, Inc., J. M., 11th & Cambria Sts., Philadelphia 33, Pa.

**CABLES, SPEEDOMETER. See Speedometer Cables**

## CABLES, Storage Battery

**(Complete with terminals)**

American Electric Cable Co., 181 Appleton St., Holyoke, Mass.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Bowes "Seal Fast" Corp., 5902 E. 34th St., Indianapolis 18, Ind.
Crescent Co., 20 Central Ave., Pawtucket, R. I.
East Penn Mfg. Co., Lyons Station, Pa.
Electric Auto-Lite Co., Toledo 1, Ohio.
Electric Storage Battery Co., Automotive Div., 246 E. 131st St., Cleveland 1, Ohio.
Essex Wire Corp., 1601 Wall St., Fort Wayne, Ind.
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.
General Cable Corp., 420 Lexington Ave., N. Y. 17, N. Y.
Gould-National Batteries, Inc., Industrial Div., 467 Calhoun St., Trenton 7, N. J.
Jordan Electrical Products Div., Electric Storage Battery Co., 222 N. Second St., Minneapolis 1, Minn.
Monarch Insulated Wire Co., 178 Central Ave., Hackensack, N. J.
National Ignition Mfg. Co., 521 W. 23 St., New York 11, N. Y.
Packard Electric Div., General Motors, Dana St., Warren, Ohio.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Sittler Corp., 18 N. Ada St., Chicago 7, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
Triple-A-Specialty Co., 2835 N. Western Ave., Chicago 18, Ill.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Walker Bros., River & End Sts., Conshohocken, Pa.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
White, Inc., J. M., 11th & Cambria Sts., Philadelphia 33, Pa.

## CABLES, Welding

**(See also Hose, Welding)**

Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.
American Steel & Wire Co., Rockefeller Bldg., Cleveland 13, Ohio.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Burdett Oxygen Co. of Cleveland, Inc., 2300 Lakeside Ave., Cleveland 14, Ohio.
Crescent Co., 20 Central Ave., Pawtucket, R. I.
General Cable Co., 420 Lexington Ave., New York 17, N. Y.
Lincoln Electric Co., 22801 St. Clair Ave., Cleveland 17, Ohio.
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill.
Roebling's Sons Corp., John A., 640 S. Broad St., Trenton, N. J.
Sittler Corp., 18 N. Ada St., Chicago 7, Ill.
Tiveco Products Co., Boston at Mosley Sts., Wichita 1, Kan.
United Metal Craft Co., 800 Lowell St., Ypsilanti, Mich.

## CABS, Industrial Truck, Etc.

Allen Industrial Products Inc., 300 Pilgrim Rd., Menomonee Falls, Wis.
Barkow Co., H., 153 N. Milwaukee St., Milwaukee 2, Wis.
Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich.
Crenlo Inc., 1600 Fourth Ave., N. W., Rochester, Minn.

## CABS, Truck Body, Wood and Metal

Allen Industrial Products Inc., 300 Pilgrim Rd., Menomonee Falls, Wis.
Autocar Div. of White Motor Co., Exton, Pa. (Metal; also sleeper.)
Automotive Industries Corp., Owendale, Mich. (Steel sleeper.)
Bedell Trailer Co., 1506 S. Flores St., San Antonio 4, Tex. (Steel sleeper.)
Brandt, Inc., Charles T., Body Div., 201 N. Haven St., Baltimore 24, Md.
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill.
Clark Equipment Co., Brown Trailer Div., Buchanan, Mich. (Aluminum sleeper.)
Couse Mfg., Inc., 369 Passaic St., Newark 4, N. J. (Armored.)
Crown Steel Products Co., 1330 N. Main St., Orrville, Ohio. (Steel.)
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
D.E.K. Mfg. Co., Orrville, Ohio. (Wood, metal, fiberglass reinforced plastic.)
Jefferson Body Co., 1711 Third Ave., S., Birmingham 3, Ala. (Sleeper.)
Kelly Mfg. Co., 503 Broad St., Charleston 21, W. Va.
McLaughlin Body Co., 2430 Third Ave., Moline, Ill.
Montpelier Mfg. Co., Montpelier, Ohio.
Orrville Body Co., Orrville, Ohio. (Also sleeper.)
Orrville Metal Specialty Co., S. Elm St. & Penn Ave., Orrville, Ohio. (Steel sleeper; sole distributors to replacement trade, Benhoff Body & Equip. Corp., 2339 Scranton Rd., Cleveland 13, Ohio.)
Stoughton Cable & Body Co., 408 E. South St., Stoughton, Wis. (Sleeper.)
Timpte Bros., Inc., E. 40 Ave. & York St., Denver 5, Colo. (Steel sleeper.)
Truck Cab Mfrs., Inc., 1201 Finlay St., Cincinnati 14, Ohio. (Metal.)
Wichita Body & Equipment Co., 1926 N. Broadway, Wichita 12, Kansas (Sleeper.)
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## CALIPERS and DIVIDERS

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Davis Boring Tool Div. of Giddings & Lewis Machine Tool Co., 475 S. Seymour St., Fond du Lac, Wis. (Micrometer calipers.)
Dixon, Inc., William, 32 E. Kinney St., Newark 1, N. J.
DoAll Co., 254 N. Laurel Ave., Des Moines, Iowa.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lufkin Rule Co., Hess Ave., Saginaw, Mich.
Master Specialty Co., 3725 Monitor Ave., Minneapolis 26, Minn.
Millers Falls Co., Greenfield, Mass.
Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. (Dividers.)
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
Swedish Gage Co. of America 10641 Haggerty Ave., Dearborn 1, Mich. (Calipers.)
Union Tool Co., 48 E. River St., Orange, Mass.
Woodworth Corp., C. B. Greene, N. Y. (Indicating Calipers.)

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Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.
Diener Mfg. Co., Geo. W., 400 Monticello Ave., Chicago 24, Ill.
Dover Stamping Co., 427 Plymouth Ave., Fall River, Mass.
Edward Can Co., 6260 Northwest Hwy., Chicago 31, Ill.
Huffman Mfg. Co., Automotive Div., P. O. Box 310, Delphos, Ohio
Justrite Mfg. Co., 2061 N. Southport Ave., Chicago 14, Ill.
Lawson Co., F. H., 801 Evans St., Cincinnati 4, Ohio.
New Delphos Mfg. Co., 100 S. Pierce St., Delphos, Ohio.
United States Steel Products Div. United States Steel Co., 5100 Santa Fe Ave., Los Angeles 58, Calif.

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**HASTINGS**

**Beveled Chrome-Vent Piston Rings**

These are tarry deposits removed from crankcase into which permanent-type anti-freeze had leaked.

# What some fleet men say is their most serious and repeated engine problem

*Permanent-type anti-freeze leakage into crankcase a cause of major maintenance headaches*

*By A. C. Davis and J. M. Miller, Sales Technical Service Department Standard Oil Company*

Both gasoline and diesel engines frequently suffer leakage which permits permanent-type anti-freeze to seep into the crankcase. When this happens, deposits form. Deposits vary from light, varnish-like films to heavy, black, rubber-like tar. The harmful effects of light varnish deposits can range from nil to plugging of rings, sticking of hydraulic lifters and valves and, possibly, sticking of pistons. In severe cases, heavy, black, rubber-like deposits tend to accumulate in the crankcase. Equally serious is the fact that the anti-freeze may remove the additives from the motor oil, causing them to settle out. Deposits resulting from permanent-type anti-freeze leakage are unwanted, and additive removal robs the engine of the full protective qualities of the motor oil and additives.

### Identifying problem is difficult

One reason for the seriousness of the leakage problem is that it can go unrecognized until too late. The varnish-like deposits are similar in appearance to those due to lack of motor oil quality or to lack of additive in the motor oil. This is the type most frequently encountered. The deposits, due to heat and chemical action, bear no resemblance to the original anti-freeze and are difficult to analyze.

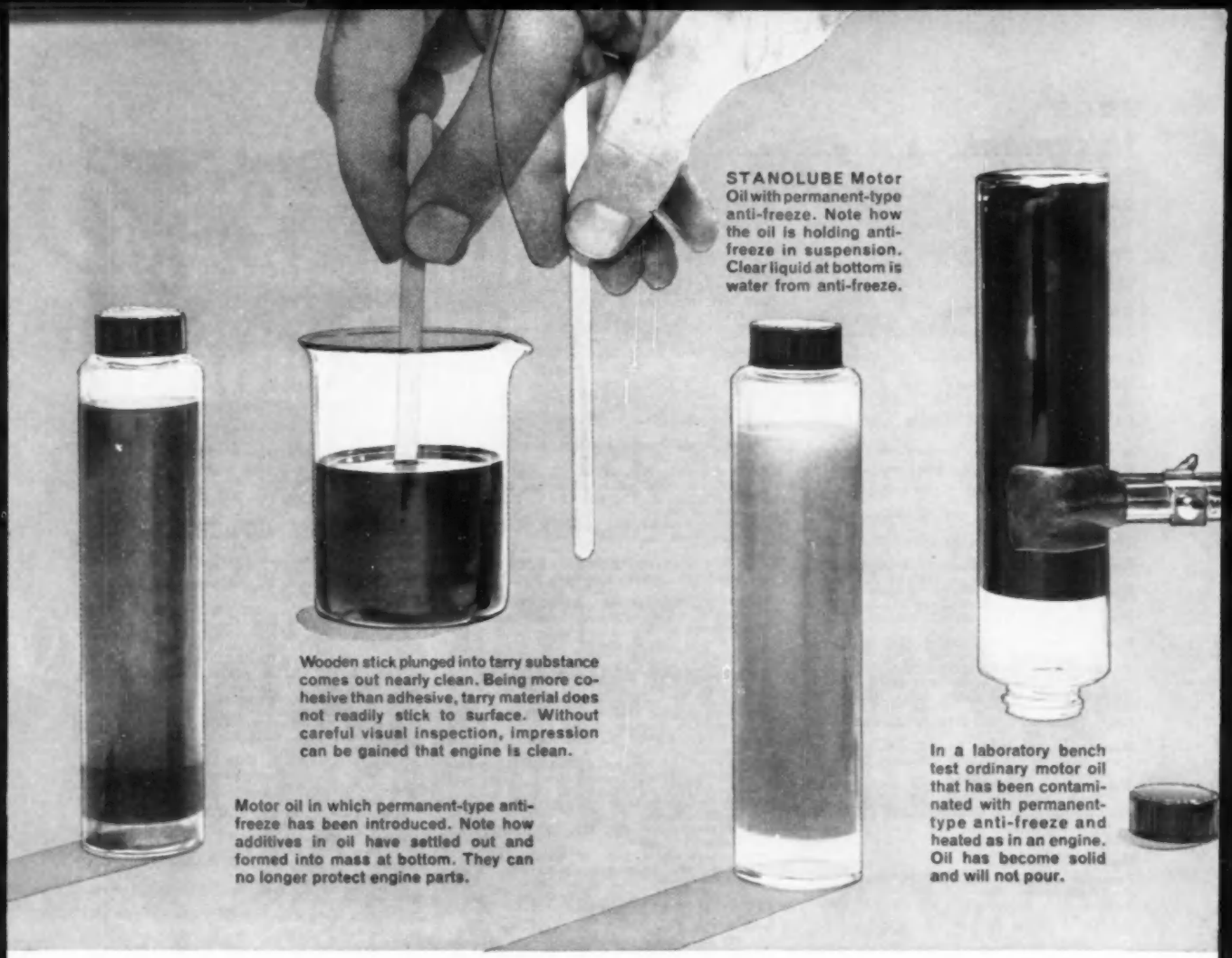
In general, anti-freeze contamination of motor oil goes unrecognized because permanent anti-freeze solutions are insoluble in oil. They settle to the bottom of the crankcase and usually are not included in a used oil sample. Extreme care in sampling is necessary to detect this contamination.

When heavy, tarry deposits occur and motor oil additives are mixed with the deposits, the deposits tend to stay in the crankcase. Frequently, on draining, the oil appears relatively clean—that is, it is less contaminated with carbon, soot and other oil-coloring materials. If such deposits are suspected, they may still be missed by probing because they do not readily adhere to the probe.

These factors can lead a skilled and competent maintenance crew, and an equally capable laboratory analyst, into believing there is no sludge in the crankcase or that there is no oil varnish due to contamination. If the crankcase is removed, however, the damage-causing, tarry-like deposits will be found.

### Stop anti-freeze leakage to prevent deposits from occurring

Check head gasket for possible leakage. If leakage is occurring there, gasket should be replaced. In engines using "wet sleeve" type cylinder liners, the sealing rings and lands should be inspected for leakage. Where a synthetic rubber-based sealing compound is used over the sealing rings and lands, replace this coating whenever engine is disassembled.




**Anti-freeze affects different motor oils in various ways**

The amount and nature of deposits is affected by the amount of anti-freeze leakage and the composition of the motor oil. Severity of operation is also a factor in the amount of deposits formed.

STANOLUBE HD-M and S-1 Motor Oils have demonstrated a unique ability to hold anti-freeze in suspension, minimizing deposits. Most important, the additives in STANOLUBE HD-M and S-1 are not readily removed by the anti-freeze.

**Service suggestions**

If used oil at drain time appears cleaner than expected, it should make one suspicious of the loss of additive. A mildly opaque oil often signals that water is present, but that additives remain in the oil. We know of no better method of protecting engines in winter than by the use of permanent-type anti-freeze. However, the possibility of leakage and the resulting damage to engine and oil that may occur, are good reasons for removing anti-freeze during warm weather.

**More facts**

Get more facts about permanent-type anti-freeze contamination and about how STANOLUBE Motor Oils can help solve this problem. Inquire of your Standard Oil automotive lubrication specialist at any of the 48 district offices in the 15 Midwest and Rocky Mountain states. Or write **Standard Oil Company (Indiana), 910 South Michigan Avenue, Chicago 80, Illinois.**

**How to clean an engine contaminated by tarry deposits resulting from permanent-type anti-freeze leakage**

1. Drain out all oil and remove oil filter; fill the crankcase with a mixture of about 3 qts. of SAE 10/W and 2 qts. of Butyl Cellosolve (obtainable from chemical suppliers); idle the engine for 30 minutes, noting the oil pressure; immediately drain the solution from the crankcase.
2. Add a flushing solution of about 3 qts. of SAE 10/W and 2 qts. of Kerosene; circulate the mixture at idling speed for 5 minutes; completely drain the system.
3. Install a new oil filter element and add fresh oil of the grade and classification required.

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### CANS, Oiling

Balcrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.
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Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Lawson Co., F. H., 801 Evans St., Cincinnati 4, Ohio.
New Delphos Mfg. Co., 100 S. Pierce St., Delphos, Ohio.

**CANVAS, See Fabric, Coated Cloth; also Covers, Trucks**

### CAPS, Gasoline Tank, Locking

Badger Mfg. Corp., 1501 W. Polk St., Chicago, Ill.
Berkson Products Inc., 217 N. Desplaines St., Chicago 6, Ill.
Dorman Products, 1004 Sycamore St., Cincinnati 2, Ohio.
Eaton Manufacturing Company, Stamping Div., 17877 St. Clair Ave., Cleveland 10, Ohio.
Edelmann & Co., E., Wayne Metalcraft Div., 2332 Logan Blvd., Chicago 47, Ill.
Electroline Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.
Knight-Morley Corp., 312 Garfield Bldg., 4612 Woodward Ave., Detroit 1, Mich.
Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill.
Riley Products Corp., 2749 N. Lincoln Ave., Chicago 14, Ill.
Roylyn Inc., 620 Paula Ave., Glendale 1, Calif.
Stant Mfg. Co., Inc., 1620 Columbia St., Connersville, Ind.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Wise Lock Co., 2730 Grand Ave., S. E., Cleveland 4, Ohio.

### CAPS, Oil Filler

Accurate Products Inc., 135 N. Spring St., Indianapolis, Ind.
Badger Mfg. Corp., 1501 W. Polk St., Chicago 7, Ill.
Berkson Products Inc., 217 N. Desplaines St., Chicago 6, Ill.
Dorman Products, 1004 Sycamore St., Cincinnati 2, Ohio.
Stant Mfg. Co., 1620 Columbia St., Connersville, Ind.
Technical Development Co., P. O. Box 82, Glenolden, Pa.

### CAPS, Radiator

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Pressure.)
Accurate Products, Inc., 135 N. Spring St., Indianapolis, Ind.
American Insulator Corp., New Freedom, Pa. (Composition.)
Badger Mfg. Corp., 1501 W. Polk St., Chicago, Ill.
Berkson Products, Inc., 217 N. Desplaines St., Chicago 6, Ill. (Pressure and non-pressure.)
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio. (Pressure.)
Eaton Mfg. Co., Stamping Div., 17877 St. Clair Ave., Cleveland 10, Ohio. (Pressure.)
Edelmann & Co., E., Wayne Metalcraft Div., 2332 Logan Blvd., Chicago 47, Ill. (Pressure.)
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Pressure.)
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. (Pressure and underhood.)
Namsco, Inc., 333 31st Ave., Bellwood, Ill.
Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill.
Rockford Metal Products Inc., 716 Cedar St., Rockford, Ill.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
Stant Mfg. Co., 1620 Columbia St., Connersville, Ind. (Standard and pressure.)
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
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Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
Druge Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Calif. (Sole distributors of Tru-Flate Inc., 92nd Ave., Oakland 3, Calif.)
Emvir Mfg. Co., 1705 Lincoln St., Evanston, Ill. (Automatic.)
G. M. Co., Mfg. Inc. 13-08 43rd Ave., Long Island City, L. I., N. Y.
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Planet Metal Products Corp., 964 Dean St., Brooklyn 38, N. Y.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

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**CARBON MONOXIDE REMOVING SYSTEMS, See Exhaust Gas Removing Systems**

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Beam Products Mfg. Co., 3040 Rosslyn St., Los Angeles 65, Calif.
Century Gas Equipment, Marvel-Schebler Products Div., Borg-Warner Corp., 625 Southside Dr., Decatur, Ill.
Ensign Carburetor Co., 1551 E. Orangethorpe Ave., Fullerton, Calif.
J & S Carburetor Co., 2634 N. Beckley St., Dallas 2, Tex.
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich.

### CARBURETORS, Gasoline

Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind. (Aircraft and automotive for replacement sales.)
Carter Carburetor Div. of ACF Industries, Inc., 2840 N. Spring Ave., St. Louis 7, Mo. (Automatic and manual choke.)
Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. (For equipment sales.)
Holley Carburetor Co., 11955 E. Nine Mile Rd., Van Dyke, Mich.
Marvel-Schebler Products Div., Borg-Warner Corp., Decatur, Ill.
Rochester Products Div., General Motors Corp., 1000 Lexington Ave., Rochester 3, N. Y.
Tillotson Mfg. Co., Toledo, Ohio.
United Motors Service, General Motors Bldg., Detroit 2, Mich.
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. (Also combination carburetor and governor.)

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Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind. (For replacement sales.)
Carter Carburetor Div. of ACF Industries, Inc., 2840 N. Spring Ave., St. Louis 7, Mo. (Automatic and manual choke.)
Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. (For equipment sales.)
Holley Carburetor Co., 5930 Vancouver Ave., Detroit 4, Mich.
Hygrade Products Div., Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, N. Y.
Marvel-Schebler Products Div., Borg-Warner Corp., Decatur, Ill.
Octa-Gane, 603 W. La Tunas Drive, San Gabriel, Calif. (Needles.)
P & D Mfg. Co., 1902 Steinway St., Long Island City 5, N. Y.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.
Precision Automotive Components Co., 7500 Devonshire St., St. Louis 19, Mo.
Preferred Electric & Wire Co., Bush Term., Bldg. No. 8, Brooklyn 32, N. Y.
Rochester Products Div., General Motors Corp., 1000 Lexington Ave., Rochester 3, N. Y.
Simmons Mfg. Co., Ashland, Ohio.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Tillotson Mfg. Co., 761 Berdan St., Toledo 12, Ohio.
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. (Combination carburetor and governor.)

### CARGO, Tie-Down System

**(See Tie-Down System, Cargo)**

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Berkson Products, Inc., 217 N. Desplaines St., Chicago 6, Ill.
Bishman Mfg. Co., Osseo, Minn.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, 14, Mo.
Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.
Duro Metal Parts Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Five Star Mfg. Co., Box 149, Clarksdale, Miss.
Houser Engng. & Mfg. Co., Bluffton, Ind.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kirspel Industries, Inc., Livingston, N. J.
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Murray Corp., E. Joppa Rd., Towson 4, Md.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Powercraft Corp., 2515 S. Wabash Ave., Chicago, Ill.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
Triple-A-Specialty Co., 2835 N. Western Ave., Chicago 18, Ill.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
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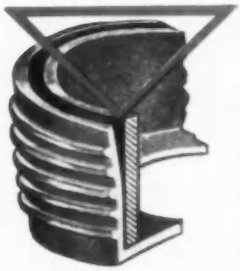

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Union Bay State Chemical Co., 491 Main St., Cambridge, Mass.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Universal Chemical Div. R. M. Hollingshead Corp., 840 Cooper St., Camden, N. J.
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Morse Chain Co. (Div Borg Warner Corp.), Ithaca, N. Y. (Sole distributor to replacement trade, Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.)
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Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill.

CHAINS, ADJUSTERS, See Adjusters, Tire Chain

### CHARGERS, Battery

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Bulb and rapid types.)
Associated Equipment Corp., 5147 Natural Bridge Ave., St. Louis 15, Mo. (Rapid and slow types.)
Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo. (Bulb and rapid types.)
Berg-Gibson Mfg. Co., 817 E. 17 St., Kansas City 8, Mo. (Rapid type.)
Blitz Electric Co., 5713 Wentworth Ave., Chicago 21, Ill. (Bulb and rapid types.)
Bogue Electric Mfg. Co., 52 Iowa Ave., Paterson 3, N. J.
Christie Electric Corp., 5410 W. 67th St., Los Angeles 43, Calif. (Bulb and rapid types.)
Electric Products Co., 1725 Clarkstone Rd., Cleveland 12, Ohio. (Motor generator type.)
Electric Service Systems, Inc., 1330 Quincy St., N.E., Minneapolis 13, Minn.
Electric Storage Battery Co., Automotive Div., 246 E. 131st St., Cleveland 1, Ohio. (Sole distributors Exide Automotive Div. Electric Storage Battery Co., 246 E. 131st St., Cleveland 1, Ohio.)
Forney Industries, 1820 La Porte Ave., Fort Collins, Colo. (Slow, medium and fast types.)
Fox Products Co., 4720 N. 18th St., Philadelphia 41, Pa. (Rapid and slow types.)
Grant Storage Battery Div., Electric Storage Battery Co., 226-28 N. Second St., Minneapolis, Minn.
H & H Products Mfg. Co., P. O. Box 2333 Terminal Annex, Los Angeles 54, Calif. (Rapid type.)
Heyer Industries, Inc., 471 Cortlandt St., Belleville 9, N. J. (Bulb and rapid types.)
Jordan Electric Products Div., Electric Storage Battery Co., 222 N. Second St., Minneapolis 1, Minn. (Bulb and rapid types.)
King Electric Equipment Co., 9123 Inman Ave., Cleveland 5, Ohio.
Marquette Mfg. Co., Inc., 307 E. Hennepin Ave., Dept 7-114, Minneapolis 14, Minn. (Rapid and slow types.)
Mid-States Welder Mfg. Co., 6025 S. Ashland Ave., Chicago 36, Ill.
Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo. (Rapid type.)
Motoraide Corp., 2400 Emerald St., Phila. 25, Pa.
Motor Generator Corp., Troy, Ohio. (Motor generator type.)
Peer, Inc., Charger Div., 1200 Milton St., Benton Harbor, Mich.
Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.
Put Battery Charger Co., 1207 Castle St., Dallas, Texas.
Quick Charge Inc., 170 N. E. 10th St., Oklahoma City, Okla. (Rapid and slow types.)
Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif. (Bulb and rapid types.)
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio. (Bulb rapid & selenium types.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Rapid type.)
Triple-A-Specialty Co., 2835 N. Western Ave., Chicago 18, Ill. (Selenium and bulbs.)
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa. (Motor generator type; copper oxide.)
Wilson, Inc., K. R., Arcade, N. Y. (Bulb and rapid types.)

### CHECKS, Door

Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Porter Co., H. K., Forge & Fittings Div. Cleveland Forge Works, 3200 E. 79th St., Cleveland 4, Ohio.
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.

### CHOCKS, Wheel

Aldon Company, 3340 Ravenswood Ave., Chicago, Ill.
Calumet Steel Castings Corp., 1642 Summer St., Hammond, Ind.
Steinwach Safety Supply, 1571 S. Park Ave., Buffalo, N. Y.

### CHUCKS, Air, Tire Inflating

Acme Air Appliance Co., 205 Newman St., Hackensack, N. J.
Amseco, Inc., 145 S. Monterey Ave., Villa Park, Ill.
Barmotive Products, Inc., 440 Peralta Ave., San Leandro, Calif.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Coronet Parts Mfg. Co., 883 Elton St., Brooklyn 8, N. Y.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
Druge Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Calif. (Sole distributors, Tru-Flate, Inc., 888 92nd Ave., Oakland 3, Calif.)
G. M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.
Peters & Russell, Inc., 501 W. Liberty St., Springfield, Ohio.
Planet Metal Products Corp., 964 Dean St., Brooklyn 38, N. Y.
Romort Mfg. Co., Oakfield, Wis.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.

CIRCUIT BREAKERS, See Breakers, Circuit

### CLAMPS, Battery Hold Down

Accurate Products Inc., 135 N. Spring St., Indianapolis, Inc.
Berkson Prods., Inc., 217 N. Desplaines St., Chicago 6, Ill.
Bishman Mfg. Co., Osseo, Minn.
Callanan Mfg. Co., 221 Summer St., Lynn, Mass.
Champ-Items, 6191 Maple Ave., St. Louis 14, Mo.
Cuyahoga Spring Co., 10252 Berea Rd., Cleveland 2, Ohio.
Houser Engrg. & Mfg. Co., 200 E. Spring St., Bluffton, Ind.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Murray Corp., E. Joppa Rd., Towson 4, Md.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
Triple-A-Specialty Co., 2835 N. Western Ave., Chicago 18, Ill.
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

### CLAMPS, Brake Cylinder, Hydraulic

Atmars Tool Co., 3561 Lakeshore Ave., Oakland 10, Calif.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Lisle Corp., Brake Div., 805 E. Main St., Clarinda, Iowa.
Murray Corp., E. Joppa Rd., Towson 4, Md.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Wilson, Inc., K. R., Arcade, N. Y.

### CLAMPS, Brake Lining

Adjustable Clamp Co., 425 N. Ashland Ave., Chicago 22, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Cincinnati Tool Co., 1967 Waverly Ave., Cincinnati 12, Ohio.
Grigg Specialty Tools, 8103 Marbrisa Ave., Huntington Park, Calif.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 47, Cal.

### CLAMPS, Hose

Accurate Products, Inc., 135 N. Spring St., Indianapolis, Ind.
American Stamping Co., 310 E. Burnham St., Battle Creek, Mich.
Anchor Coupling Co., 342 N. 4th St., Libertyville, Ill.

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### CLAMPS—continued

Arsco Mfg. & Sales Co., 451 10th Ave., New York 18, N. Y.
Breeze Corps., Inc., 700 Liberty Ave., Union, N. J.
Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y.
Carston Mfg. Co., 46 N. 2nd St., Mt. Vernon, N. Y.
Champ-Items Inc., 6191 Maple Ave., St. Louis 14, Mo.
Clancy, Inc., J. R., 1010 W. Belden Ave., Syracuse, N. Y.
Corbin Hose Clamp, Div. American Hardware Corp., 102 Washington St., New Britain, Conn.
Denis Mfg. Co., 46 Alvin St., Springfield 4, Mass.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Eastman Mfg. Co., 1440 W. 24th St., Manitowoc, Wis.
Eaton Mfg. Co., Reliance Div., 25 Charles Ave., S.E., Massillon, Ohio.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Radiator; heater.)
Garrett Co., George K., Torresdale Ave. at Talbut St., Philadelphia 36, Pa.
Hansen Mfg. Co., 4031 W. 150th St., Cleveland 35, Ohio.
Hunt & Son, C. B., 1913 E. Pershing St., Salem, Ohio.
Ideal Corp., 435 Liberty Ave., Brooklyn 1, N. Y.
Ingersoll-Rand Co., 11 Broadway, New York, N. Y.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Marman Div. Aeroquip Corp., 11214 Exposition Blvd., Los Angeles 64, Calif.
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
Mulconroy Co., 54th & Jefferson Sts., Philadelphia, Pa.
Murray Corp., E. Joppa Rd., Towson 4, Md.
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.
Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
Tinnerman Products, Inc., 8700 Brookpark Rd., Cleveland, Ohio.
Turner Mfg. Co., 404 W. Superior St., Kokomo, Ind.
United Steel & Wire Co., 27 Fonda Ave., Battle Creek, Mich.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Wickwire Spencer Steel Div. of Colorado Fuel & Iron Corp., 575 Madison Ave., N. Y. 22, N. Y. (Heater.)
Wittek Mfg. Co., 4305 W. 24th Place, Chicago 23, Ill.

### CLEANERS, Air, Carburetor

AC, The Electronic Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Badger Mfg. Corp., 1501 W. Polk St., Chicago 7, Ill.
Bonzer-Western Corp., 3055 E. 12th St., Los Angeles 23, Calif.
Cyclone Filter Corp., 4401 W. North Ave., Chicago 39, Ill.
Dollinger Corp., 20 Center Pk., Rochester 3, N. Y.
Donaldson Co., 666 Pelham Blvd., St. Paul 14, Minn. (Oil.)
Fram Corp., East Providence 16, R. I.
Lee Filter Corp., 41 River Rd., North Arlington, N. J.
Purolator Products Inc., Wayne Div., Wayne, Mich.
United Specialties Co. of Illinois, 9705 Cottage Grove Ave., Chicago 28, Ill. (Oil.)
Vortox Co., 121 S. Alexander Ave., Claremont, Cal. (Oil bath.)
Wix Corp., Gastonia, N. C.

### CLEANERS, Air, Crankcase Breather

AC, The Electronic Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Fram Corp., East Providence 16, R. I.
Purolator Products Inc., Wayne Div., Wayne, Mich.

### CLEANERS, Bus Interior (Systems)

Ross & White Co., Chicago Daily News Bldg., Chicago 6, Ill.

### CLEANERS, Carburetor, Chemical

Bardahl Mfg. Corp., 1400 W. 52nd St., Seattle 7, Wash.
Brulin & Co., 2939 Columbia Ave., Indianapolis 7, Ind.
Cee-Bee Chemical Co., 9520 E. Ceebee Drive, Dormey, Calif.
Choldun Mfg. Co., 331 East St., New Haven, Conn.
Crystal Soap & Chemical Co., 6300 State Rd., Philadelphia 35, Pa.
Curran Corp., S. Canal St., Lawrence, Mass.
Delta Chemical Co., 2885 Warford Pl., Memphis 1, Tenn.
Drew & Co., E. F., Automotive Chemicals Div., 15 E. 26th St., New York, N. Y.
Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio.
Fine Organics, Inc., 211 E. 19th St., New York 3, N. Y.
Fischer Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa.
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
Graymills Corp., 3705 N. Lincoln Ave., Chicago 13, Ill.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
Kelite Corporation, 1250 N. Main St., Los Angeles 12, Calif.
Kleer-Flo Co., 250 W. 57th St., New York 19, N. Y.
Luboid Co., 3270 S. Third St., Milwaukee 7, Wis.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Magnuson Products Corp., 50 Court St., Brooklyn, N. Y.
Oakite Products, Inc., 19 Rector St., New York, N. Y.
Pennsylvania Refining Co., Gumout Div., 2686 Lisbon Rd., Cleveland 4, Ohio.
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.
Rust Master Chemical Corp., 50 Creighton St., Cambridge, Mass.
Service Supply Co., 1115 Seventh St., Denver 2, Colo.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
United States Aviex Co., 1350 Maple St., Niles, Ohio.
V-O Mfg. Co., 13165 Sherman Way, North Hollywood, Calif.
Wynn Oil Co., 1151 W. 5th St., Azusa, Calif.

**CLEANERS, CHEMICAL, See Solvents, Oil, Carbon & Grease Removing**

**CLEANERS, COOLING SYSTEMS, See Flushers, Radiator and Block, Portable.**

**CLEANERS, DIFFERENTIAL and TRANSMISSION, See Flushers, Differential and Transmission**

### CLEANERS, Driveway & Floor, Cement

Carey Mfg. Co., Philip Lockland, Cincinnati 15, Ohio.
Diversey Corp., 1820 Roscoe St., Chicago 13, Ill.
Eagle-Picher Co., American Bldg., Central Parkway, Cincinnati 1, Ohio.
Fischer Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.
Flor-Dry Co., 181 University Ave., St. Paul 4, Minn.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
Magnus Chemicals Co., Inc., 38 South Ave., Garwood, N. J.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Oil-Dri Corp. of America, 520 N. Michigan Ave., Chicago, Ill.
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa.
Philadelphia Quartz Co., 1146 Public Ledger Bldg., 6th & Chestnut Sts., Philadelphia 6, Pa.
Rhodes & Co., James H., 153 W. Hubbard St., Chicago 10, Ill.
Speedi-Dri Corp., Menlo Park, N. J.
Waverly Petroleum Products Co., 1724 Chestnut St., Philadelphia 3, Pa.
Wyandotte Chemicals Corp., J. B. Ford Div., 1609 Biddle Ave., Wyandotte, Mich.

### CLEANERS, Engine, Chassis and Fender

Aeroil Products Co., 69 Wesley St., South Hackensack, N. J.
Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich. (Steam.)
Circo Equipment Co., 120 Central Ave., Clark (Rahway), N. J.
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Hot vapor spray; also portable steam.)
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.
Dutton-Lainson Co., Mfg. Div., Hastings, Nebr. (Engine and chassis.)
Eclipse Fuel Engineering Co., 1111 Buchanan St., Rockford, Ill.
Ewing Mfg. Co., 2545 N. W. Tenth St., Oklahoma City, Okla. (Steam.)
General Equipment Mfg. Co., 35 E. Runyon St., Newark 5, N. J.
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa.
Hydro-Air Cleaning Systems Inc., 14731 Miles Ave., Cleveland 28, Ohio.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif. (Steam.)
Magnus Chemical Co., 185 South Ave., Garwood, N. J. (Steam guns.)
Malsbary Mfg. Co., 845 92nd Ave., Oakland 3, Calif. (Steam.)
Oakite Products, Inc., 52 G Rector St., New York 6, N. Y. (Steam guns, sprayers.)
Practical Mfg. Co., 2840 Fourth Ave, S., Minneapolis 8, Minn.
Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City 4, Okla. (Steam.)
Sellers Injector Corp., 1600 Hamilton St., Philadelphia 30, Pa.
Siebring Mfg. Co., 182 Main St., George, Iowa. (Steam.)
Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Texas.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Turbo Machine Co. (Div. of Dexdale Hosiery Mills), 840 W. Main St, Lansdale, Pa. (Steam.)
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
Vapor Heating Corp., 80 E. Jackson Blvd., Chicago 4, Ill.

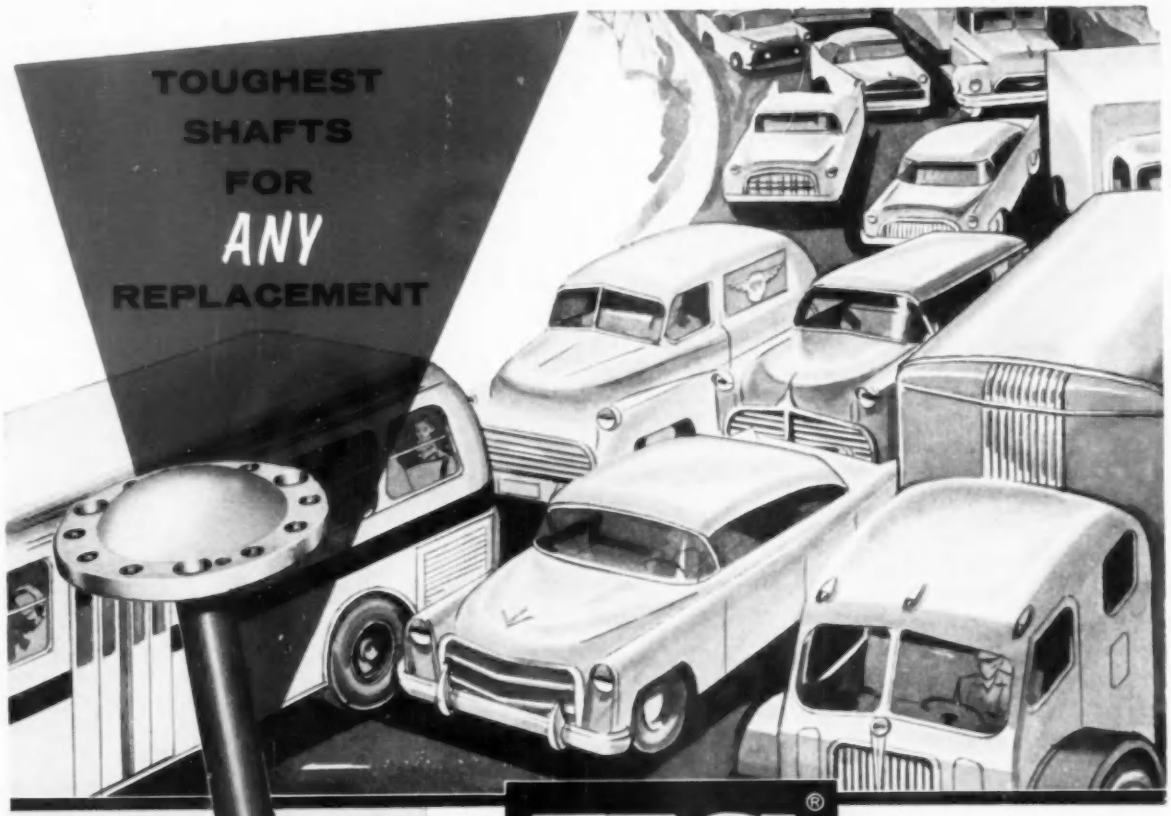
### CLEANERS, Hand

Banite Co., Banite Bldg., Buffalo 4, N. Y.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.

### CLEANERS, Metal

**(Compound for cleaning and preparing surfaces for painting; see also Solvents, Oil, Carbon, Grease and Detergents)**

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Aldridge Chemical Oils, Inc., 3401 W. 140th St., Cleveland 11, Ohio.
Amchem Products Inc., Brookside Ave. & Reading R. R., Ambler, Pa.
Anti-Rust Corp., 315 E. 91st St., New York, N. Y.
Bruce Products Corp., 500 N. West St., Howell, Mich.
Buchanan Chemical Co., C. G., 4640 Baker Rd., Cincinnati 12, Ohio.
Calcine Chemical Co., P. O. Box 61, H. C. Station, Jersey City, N. J.
Cee-Bee Chemical Co., 9520 Ceebee Drive, Downey, Calif.
Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelphia 29, Pa.
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.
Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3, Ohio.
Dearborn Chemical Co., Merchandise Mart Plaza, Chicago 54, Ill.
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
Diversey Corp., 1820 Roscoe St., Chicago 13, Ill.
Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio.
du Pont de Nemours & Co., E. I., Electrochemicals Dept., Wilmington 98, Del.



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du Pont de Nemours & Co., E. I., Grasselli Chemical Dept., du Pont Bldg., Wilmington 98, Del. (Alkaline and acid.)
Enthone, Inc., 442 Elm St., New Haven 11, Conn.
Farrelloy Co., 1243 N. 26th St., Philadelphia 21, Pa.
Fine Organics, Inc., 211 E. 19th St., New York 3, N. Y.
Fischer Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa.
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Graymills Corp., 3705 N. Lincoln Ave., Chicago 13, Ill.
Hanson-Van Winkle-Munning Co., Matawan, N. J.
Homestead Valve Mfg. Co., Hypressure Jenny Div., Narrows Run Rd., Coraopolis, Pa.
Hooker Electrochemical Corp., 27 Iroquois St., Niagara Falls, N. Y.
Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa.
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
Krembs & Co., 669 W. Ohio St., Chicago 10, Ill.
Lake Erie Mfg. Co., 192 Chicago St., Buffalo, N. Y.
Lavo Co. of America, 1243 N. 5th St., Milwaukee 12, Wis.
Lord Chemical Co., 2068 S. Queen St., York, Pa.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Magnuson Products Corp., 50 Court St., Brooklyn, N. Y.
Manufacturers Processing Co., 1360 Hilton Rd., Ferndale 20, Mich.
Metal Wash Machinery Corp., 901 N. Ave., Elizabeth, N. J.
Mitchell-Bradford Chemical Co., Wampus Lane, Milford, Conn.
Northwest Chemica Co. 9310 Roselawn Ave., Detroit 4, Mich. "Alkalume."
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Panther Chemical Co., P.O. Box 711, Ft. Worth, Texas.
Parker Rust Proof Co., 2177 E. Milwaukee Ave., Detroit 11, Mich.
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa.
Pennsalt Chemicals Corp., 3 Penn Center Plaza, Phila. 2, Pa.
Philadelphia Quartz Co., 1146 Public Ledger Bldg., Sixth & Chestnut Sts., Philadelphia 6, Pa.
Quick Charge, Inc., 1750 N. E. 10th St., Oklahoma City 17, Okla.
Ransohoff, Inc., N., North 5th St. & Ford Blvd., Hamilton, Ohio. (Ultrasonic.)
Rogers Paint Products, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Rossaul Co., 170 Fifth Ave., New York 10, N. Y.
Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif.
Wolfe-Kote Co., 1225 N. 8th St., Sheboygan, Wis.
Wyandotte Chemicals Corp., J. B., Ford Div., 1609 Biddle Ave., Wyandotte, Mich.

### CLEANERS, Radiator

Aeroil Products Co., Wesley St., South Hackensack, N. J. (Hot.)
Inland Mfg. Co., 1108 Jackson St., Omaha 8, Neb. (Hot.)
Magnus Chemical Co., 185 South Ave., Garwood, N. J.

### CLEANERS, Spark Plug

AC, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Auburn Spark Plug Co., York St., Auburn, N. Y.
Champion Spark Plug Co., 904 Upton Ave., Toledo 1, Ohio.
Electric Auto Lite Co., Toledo 1, Ohio.
Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee, Wis.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.

**CLEANERS, STEAM, See Cleaners, Engine, Chassis and Fender**

**CLEANERS, TANK, See Washers, Metal Parts**

### CLIPS, Spring

Accurate Products Inc., 135 N. Spring St., Indianapolis, Ind.
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Clapp Mfg. Co., E. D., 305 W. Genesee St., Auburn, N. Y.
Cuyahoga Spring Co., 10252 Berea Rd., Cleveland 2, Ohio.
Davis Auto Equipment Co., 119 N. 3rd St., Reading, Pa.
Handy Button Machine Co., 2255 S. Rockwell St., Chicago 8, Ill. (Upholstery.)
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.
Houser Engrg. & Mfg. Co., Bluffton, Ind.
Prestole Corp., 1351 Miami St., Toledo 5, Ohio.
Queen City Forging Co., Tennyson & Dumont Sts., Cincinnati 26, Ohio.
Service Spring Co., Box 638, Indianapolis 6, Ind.
Spring Div. Borg-Warner Corp., Madison St. & 25th Ave., Bellwood, Ill.
Triangle Auto Spring Corp., Maloney Rd., & B&O RR., Dubois, Pa.
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis.

### CLUTCHES

Accurate Re-Nu Clutch Div. of Mar Pro Inc., 168 N. Michigan Ave., Chicago 1, Ill.
Borg & Beck Div., Borg-Warner Corp., 6553 S. Menard Ave., Chicago 38, Ill.
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. (Truck and bus.)
Eaton Mfg. Co., Dynamatic Div., 3307 14th Ave., Kenosha, Wis. (Eddy current.)
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
Lipe-Rollway Corp., 806 Emerson Ave., Syracuse 4, N. Y. (Heavy duty.)
Long Mfg. Div. Borg-Warner Corp., 12501 Dequindre St., Detroit, Mich.
Rockford Clutch Div., Borg-Warner Corp., 1319 18th Ave., Rockford, Ill. (Truck, tractor and bus.)

**CLUTCH ALIGNMENT TOOLS, See Tools, Clutch Alignment**
**CLUTCH FACINGS, See Facings, Clutch**
**CLUTCH PARTS, See Parts, Clutch**
**CLUTCH PLATES, See Plates, Clutch**
**CLUTCH REBUILDING MACHINES, See Machines, Clutch Rebuilding**

### COCKS, Pet, Drain, Gasoline, Air, etc.

Acme Air Appliance Co., 205 Newman St., Hackensack, N. J. (Drain.)
American Brass & Iron Co., 6500 Georgia Ave., Detroit 11, Mich.
Anderson Brass Co., 100 S. Campbell Ave., Detroit 9, Mich.
Commonwealth Brass Corp., 5835 Commonwealth Ave. & G. T. R. R., Detroit 8, Mich. (Drain.)
Consolidated Brass Co., 2019 N. Tryon Ave., Charlotte 6, N. C.
Dole Valve Co., 6201 Oakton St., Morton Grove, Ill.
Dorman Products, 1004 Sycamore St., Cincinnati 2, Ohio.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill.
Lincoln Brass Works, 2067 12th St., Detroit 16, Mich.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Lunkenheimer Co., Beekman St. & Waverly Ave., Cincinnati 14, Ohio.
Nauman Mfg. Corp., R. F., 525 Michigan Ave., Buffalo 3, N. Y.
Republic Gear Co., 2197 Beaufort Ave., Detroit 7, Mich.
Velvac, Inc., 3534 W. Pierce St., Milwaukee 15, Wis.
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

### COILS, Ignition

Aerovox Corp., Crowley Div., 1 Central Ave., West Orange, N. J.
American Bosch Div. American Bosch Arma Corp., 3664 Main St., Springfield 7, Mass.
American Motor Products Co., Fond du Lac, Wis.
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
Crumbliss Mfg. Co., 3830 N. Podlin Drive, Franklin Park, Ill.
DSM Electric Co., John Lodge Expressway, Detroit 2, Mich.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Echlin Mfg. Co., U. S. Route 1, Branford, Conn.
Electric Auto-Lite Co., Toledo, Ohio.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Regular and high speed.)
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y.
Holley Carburetor Co., 11955 E. Nine Mile Rd., Van Dyke, Mich.
Kem Mfg. Co., 20-21 Dagaraw Rd., Fairlawn, N. J.
M. D. Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles 1, Calif.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Mallory Electric Corp., 12414 Cloverdale Ave., Detroit 4, Mich.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.
New York Coil Co., 42 Second Ave., Phoenixville, Pa.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
O.S.M. Electric Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Ohio Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.
Sorenson Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, N. Y.
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
Switches Inc., 317 E. Ontario St., Chicago 11, Ill.
Tasco Products Div. of Guaranteed Parts Co., Seneca Falls, N. Y.
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
United Motors Service, General Motors Bldg., Detroit, Mich.
Valley Forge Products Co., 370 19th St., Brooklyn 15, N. Y.
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Wico Electric Co., 42 Phelon Ave., West, Springfield, Mass.

**COIL TESTERS—See Instruments, Electrical Circuit Testing**

**COMBUSTION ANALYZERS—See Analyzers, Combustion**

### COMPOUNDS, Battery Terminal Anti-Corrosive

Allube Corp., 928 Allen Ave., Glendale 1, Calif.
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Dow Corning Corp., Midland, Mich.
Gould-National Batteries, Inc., Industrial Div., 467 Calhoun St., Trenton 7, N. J.
McGlaughlin Oil Co., 3750 E. Livingston Ave., Columbus, Ohio
Noco Co., Box 783, Cleveland 22, Ohio.
No-Kro Co., P. O. Box 178, Chanute, Kan.
Pep Mfg. Co., 33 W. 42nd St., New York, N. Y.
Radiator Seal Co., 625 Sixteenth Ave., Council Bluffs, Iowa.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.
Wolfe-Kote Co., 1225 N. 8th St., Sheboygan, Wis.

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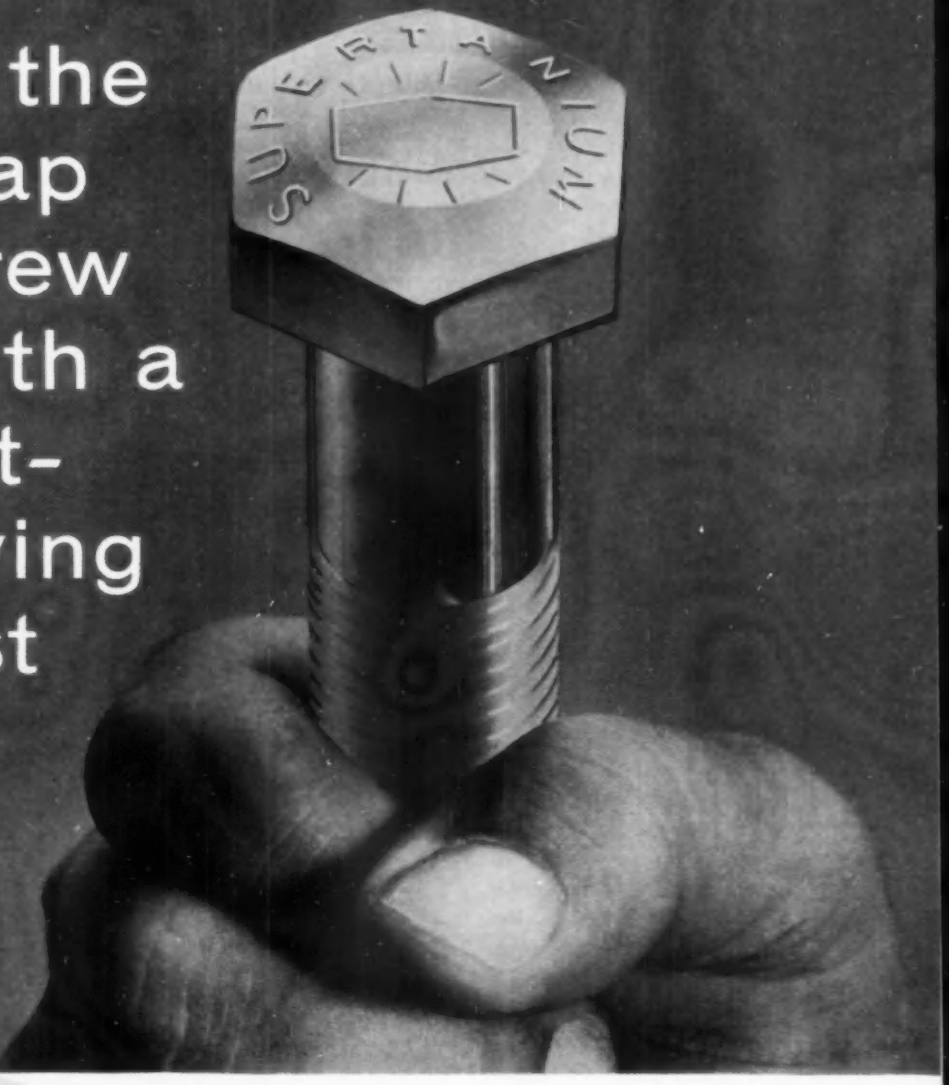


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# compounds to compressors

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Bakelite Co., 30 E. 42nd St., New York 17, N. Y.
Boyle-Midway Inc., Div. of American Home Products Corp., 22 E. 40th St., New York 16, N. Y.
Econite Miracle Products, Inc., 207 W. Main St., Morganfield, Ky.
Fibre Glass Evercoat Co., Inc., 7220 Vine St., Cincinnati 16, Ohio.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
International Metal Polish Co., 1910 Quill St., Indianapolis 7, Ind.
Kenoh Products Co., 6785 Marion Ave., Cincinnati, Ohio.
Marson Corp., 115 Mill St., Revere, Mass.
McKay Co., 1005 Liberty Ave., Pittsburgh 2, Pa.
Pioneer Chemical & Mfg. Co., 9812 Meech Ave., Cleveland 5, Ohio.
Ren Plastics Inc., 3179 S. Cedar Rd., Lansing 19, Mich.
Ruscoe Co., W. J., 483 Kenmore Blvd., Akron 1, Ohio.
Sheffield Bronze Paint Corp., 17814 Waterloo Rd., Cleveland 19, Ohio.
Swiss Laboratory, 1533 Hamilton Ave., Cleveland 14, Ohio.
Taylor & Art, Inc., 1710 E. 12th St., Oakland 6, Cal.

### COMPOUNDS, Body Sealing

Dennis Chemical Co., 2701 Papin St., St. Louis 3, Mo.
Johns-Manville, Box 14, New York 16, N. Y.

### COMPOUNDS, Brake Bonding

Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Permafuse Corp., 675 Main St., Westbury, N. Y.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.

**COMPOUNDS, CAR WASHING. See Detergents, Car Washing; also Soaps, Car Washing.**

### COMPOUNDS, Crankcase Sludge Removing

Alox Corp., Buffalo Ave. & Iroquois St., Niagara Falls, N. Y.
Alsol Products Co., 123 Coit St., Irvington, N. J.
Celco Corp., 60 E. 42nd St., N. Y. 17, N. Y.
Curran Corp., S. Canal St., Lawrence, Mass.
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa.
Emerol Mfg. Co., 331 N. Main St., Port Chester, N. Y.
Fine Organics, Inc., 211 E. 19th St., New York 3, N. Y.
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa.
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Gunk Chicago Co., 630 N. Harlem Ave., River Forest, Ill.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Kano Labs., 1000 S. Thompson La., Nashville 11, Tenn.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
Lubaid Co., 155 E. Kilborn St., Milwaukee 1, Wis.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Moly Motors Products, 1155 Broadway, New York, N. Y.
National Refining Co., Standard Bldg., Cleveland 1, Ohio.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.
Quaker Oats Co., Chemical Div., Chicago, Ill.
Randall Products Mfg. Co., 2095 Broadway, New York 23, N. Y.
Rust Master Chemical Corp., 56 Creighton St., Cambridge, Mass.
V-O Mfg. Co., 13165 Sherman Way, North Hollywood, Calif.
White & Bagley Co., 100 Foster St., Worcester 8, Mass.

### COMPOUNDS, Metal Testing

(To visually locate cracks, flaws or porosity in metal)

K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
Magnaflux Corp., 7300 W. Lawrence Ave., Chicago 31, Ill.
Turco Products, 6135 S. Central Ave., Los Angeles 1, Calif.

### COMPOUNDS, Radiator & Block Repair

du Pont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, Wilmington 98, Del.
Goodrich Co., B. F., 500 S. Main St., Akron, 18, Ohio. (Capsules.)
Hollingshead Corp., R. M., 840 Cooper St., Camden 2, N. J.
K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
Lusco Inc., 5915 Bonna, Cleveland, Ohio.
Miller Mfg. Co., 1100 N. 32nd St., Camden 5, N. J.
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.
Producers, Ltd., 915 Fowler Ave., Evanston, Ill.
Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
Sodrin Corp., 2746 McGee Trafficway, Kansas City, Mo.
Socony Vacuum Oil Co., 26 Broadway, New York 4, N. Y.
Stanley Co., John T., 642 W. 30th St., New York 1, N. Y.
Tincher Products Co., 800 Borden Ave., Sycamore, Ill.
Versnick Mfg. Co., 4700 E. Nevada St., Detroit 34, Mich.

**COMPOUNDS, RADIATOR RUST PREVENTING, See Rust Preventatives, Cooling System**

### COMPOUNDS, Rubbing and Polishing

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa
Alsol Products Co., 123 Coit St., Irvington, N. J.
Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio.
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo.
Colorglo Products, Inc., 109 N. Newlin Ave., Whittier, Calif.
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
du Pont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, du Pont Bldg., Wilmington 98, Del.
du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales, Wilmington 98, Del.
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Goodison Mfg. Co., Rochester, Mich.
Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J.
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind.
Kammel Prods. Corp., 1619 Hart Place, Brooklyn 24, N. Y.
Ken-nite Co., 2926 Hancock Ave., W., Detroit 8, Mich.
Lee Polish Mfg. Co., 1399 Utica Ave., Brooklyn 3, N. Y.
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill.
Park Chemical Co., 8074 Military Ave., Detrot 4, Mich.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Simoniz Co., 2100 Indiana Ave., Chicago 16, Ill. (Polishing.)
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stain-Ox Co., 625 E. First Ave., Roselle, N. J.
Swavely Chemical & Varnish Works, 831 Page St., Flint 5, Mich.
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Warehouse Distributors Co., 3810 N. 19th St., Philadelphia 40, Pa.
Wilson-Imperial Co., 115 Chestnut St., Newark 5, N. J. (Rubbing.)

### COMPOUNDS, Tire Repair

American Grease Stick Co., Muskegon, Mich. (Tubeless.)
Better Monkey Grip Co., 5320 Harry Hines Blvd., Dallas 2, Tex. (Sole distributors, Monkey Grip Sales Co., 5320 Harry Hines Blvd., Dallas 2, Tex.)
Even-Air Corp., Caldwell, N. J.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J.
Instant Seal Corp., 38th & Powelton Sts., Philadelphia 4, Pa.
Kex Products, 4400 St. Vincent Ave., St. Louis 19, Mo.
Lee Rubber & Tire Corp., Conshohocken, Pa.
Liquid Veneer Corp., 215 E. Ellicott St., Buffalo 3, N. Y.
Patch Rubber Co., P. O. Box 933, Akron 9, Ohio.
United States Rubber Co., Rockefeller Center, Ave. of the Americas, New York 20, N. Y.
Xylos Rubber Co., 1200 Firestone Parkway, Akron 1, Ohio.

### COMPOUNDS, Valve Grinding

Carborundum Co., Buffalo Ave., Niagara Falls N. Y.
Clover Mfg. Co., 327 Main St., Norwalk, Conn.
Durkee-Atwood Co., 215 Seventh St., N. E. Minneapolis 13, Minn.
Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
Pep Mfg. Co., 33 W. 42nd St., New York N. Y.
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.
Purfex Mfg. Co., Box 118, Collegeville, Pa.
Zip Abrasive Co., 1360 W. Ninth St., Cleveland 13, Ohio.

### COMPOUNDS, Welding

Dolphin Paint & Varnish Co., 922 Locust St. Toledo 3, Ohio.
Ensign Products Co., 3528 E. 76th St., Cleveland 15, Ohio.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
Krembs & Co., 669 W. Ohio St., Chicago 10, Ill.
Linde Co., 30 E. 42nd St., New York 17, N. Y. (Anti-spatter.)
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Midland Paint & Varnish Co., 3801 E. 91st St., Cleveland 5, Ohio. (To prevent bonding of spatter to parts.)
Wayne Chemical Products Co., Copeland Ave & M.C.R.R., Detroit, Mich. ("Flash-Ex." to prevent bonding of flash to dies; "Spatter-Ex." to prevent bonding of spatter to parts.)
Wolfe-Kote Co., 1225 N. 8th St., Sheboygan, Wis. (To prevent bonding of spatter to parts.)

### COMPOUNDS, Windshield Sealing

Behr-Manning, Div. Norton Co., Troy, N. Y.
Dolphin Paint & Varnish Co., 922 Locust St., Toledo 3, Ohio.
du Pont de Nemours & Co., E. I., Finishes Div. Specialties Sales, Wilmington 98, Del.
Krylon, Inc., Ford & Washington Sts., Norristown, Pa.
Minnesota Mining & Mfg. Co., 900 Bush Ave., St. Paul 6, Minn.
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.
Radiator Specialty Co., 1400 W. Ind Blvd., Charlotte 1, N. C.
Vibradamp Corp., 4401 Page Ave. Rd., Jackson, Mich.

**COMPRESSION GAGE. See Gages, Cylinder Compression**

### COMPRESSORS, Air

American Air Compressor Corp., Dell Ave. & 48th St., North Bergen, N. J.
American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, N. Y.
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(TURN TO NEXT PAGE, PLEASE)

# association directory

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*—continued*

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**AUTOMOTIVE PARTS MANUFACTURERS ASSN.**, 16219 Meyers, Detroit 35, Frank Rising, Gen. Mgr.

**AUTOMOTIVE PARTS REBUILDERS ASSN.**, 220 S. State St., Chicago 4, Nathan M. Roberts, Exec. Dir.

**AUTOMOTIVE SAFETY FOUNDATION** (1937), 200 Ring Bldg., 1200 18th St., N.W., Washington 6, D. C., J. O. Mattson, Pres.; Pyke Johnson, Consultant.

**AUTOMOTIVE TRADE ASSN. MANAGERS**, 60 Park Place, Newark 2, N. J., Otto P. Henneberger, Sec., N. J. Auto. Trade Assn.

**CAR AND TRUCK RENTING AND LEASING ASSN. (CATRALA)**, 209 S. LaSalle St., Chicago 4, Ill., Howard R. Smith, Exec. Sec.

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**MOTOR & EQUIPMENT MANUFACTURERS ASSN.**, 250 W. 57th St., New York 19, Fred. J. Lanning, Gen. Mgr.

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General Counsel—Guy Farmer.
Dir. of Div. of Research & Statistics—Harold R. Hosea.

**NATIONAL ASSN. OF REFRIGERATED WAREHOUSES**—Tower Bldg., N. W., Washington 5, D. C., Richard M. Powell, Exec. V. P.

**NATIONAL ASSN. OF TAXICAB OWNERS**, 803 Leader Bldg., Cleveland 14, Ohio, H. I. Gwilym, Sec.

**NATIONAL AUTOMOBILE DEALERS ASSN.** (1917), 2000 K St., N.W., Washington 6, D. C., Dr. Rowland F. Kirks, Leg. Counsel.

**NATIONAL AUTOMOBILE TRANSPORTERS ASSN.** (1944), Suite 206, 1000 Connecticut Ave., Washington 6, D. C., William A. Bresnahan, Gen. Mgr.

**NATIONAL BUS TRAFFIC ASSN. INC.** (1933), 506 S. Wabash Ave., Chicago. P. J. Campbell, Chairman.
North Central Division—1114 Currie Ave., Minneapolis, Minn., A. E. Peters, Sec.
South Central Division—315 Continental Ave., Dallas, Texas, John M. Heket, Pres.
Western Division—371 Market St., San Francisco, Cal., W. E. Hastings, Chmn.

**NATIONAL CAR RENTAL SYSTEM, INC.** 1209 Washington Ave., St. Louis 3, Mo., Walter J. Phillips, Exec. V. P.

**NATIONAL DEFENSE TRANSPORTATION ASSN.**, 1001 Connecticut Ave., N.W., Washington 6, D. C., Francis W. Crary, Exec. Dir.

**NATIONAL FILM CARRIERS, INC.**, 1239 Vine St., Philadelphia 7, Clint Weyer, Sec.

**NATIONAL FURNITURE WAREHOUSEMEN'S ASSN.**, 175 W. Jackson Blvd., Chicago 4, Edward D. Byrnes, Exec. Dir.

**NATIONAL HIGHWAY USERS CONFERENCE, INC.** (1932), National Press Bldg., Washington 4, D. C.

STAFF EXECUTIVES:
Director—Arthur C. Butler.
Asst. Director—P. D. McLean.
Research Counsel—Yule Fisher.
Engineering Counsel—Roy E. Jorgensen.
State Services Dept.—Russell E. MacCleery, Mgr.; Harold Gray, Field Mgr.
Mgr. Legislative Reporting Dept.—Myles English.
Mgr. Public Info. Dept.—John E. Moore.
Safety Coordinator—William J. Simon.
Mgr. Special Services Dept—G. Tinsley Garnett.

REGIONAL REPRESENTATIVES:
(Note: For exact locations, address through National headquarters in Washington)
James E. Basham, Kansas City, Mo. (Ark., Kans. Mo., & Okla.)
R. W. Callan, Seattle, Wash. (Idaho, Mont., Ore. & Wash.)
J. Olan Cooper, Auburn, Alabama (Ala., Fla. & Ga.)
Roger F. Dreyer, Wheaton, Ill. (Ill., Iowa & Wis.)
Glen B. Dunkle, Nashville, Tennessee (Ky., La., Miss. & Tenn.)
Cecil Fausch, Minneapolis, Minn. (Minn., Nebr., N. D. & S. D.)
David L. Kelly, Winston-Salem, N. C. (N. C., S. C., Va. & W. Va.)
Michael LePere, Okemos, Mich. (Ind., Mich. & Ohio)
David F. McQuaid, Nashua, N. H. (Supervision & field work in New York & New England States)
John Thornton Newman, Albany, N. Y. (Conn. & N. Y.)
Herbert B. Simpson, San Francisco, Cal. (California & supervision in 12 Western States)
George A. White, Arlington, Va. (Del., Md., N. J. & Pa.)
Appointments Pending: Colo., Nev., Utah & Wyo. and Ariz., N. M. & Texas.
(See also Listing under State Highway Users Conferences)

**NATIONAL SAFETY COUNCIL** (1913), 425 N. Michigan Ave., Chicago 11.

STAFF EXECUTIVES:
Ned H. Dearborn, President.
G. C. Stewart, Exec. V. P.
Paul H. Coburn, Dir. Motor Transportation Div.

**NATIONAL TRUCK LEASING SYSTEM** (1945), 23 E. Jackson Blvd., Chicago 4, Ill., Miss Martha Dunlap, Exec. Dir.

**NATIONAL TRUCK TANK & TRAILER TANK INSTITUTE**, 120 S. LaSalle St., Chicago 3, Allan R. Smith, Exec. Sec.

**NATIONAL WHEEL & RIM ASSN.**, 3663 Forest Park Ave., St. Louis 8, Mo., H. M. Young, Sec.-Treas.

**POWER CRANE & SHOVEL ASSN.**, 75 West St., New York 6, Herbert S. Blake, Jr., Sec.

**PRIVATE TRUCK COUNCIL OF AMERICA, INC.** (1939), (Formerly National Council of Private Motor Truck Owners, Inc.), Sheraton Bldg., Washington 5, D. C., James D. Mann, Man. Dir.

**SCHOOL BUS BODY MANUFACTURERS ASSN.**, 75 West St., New York 6, H. W. Dailey, Sec.

**SOCIETY OF AUTOMOTIVE ENGINEERS, INC.** (1905), 485 Lexington Ave., N. Y.

STAFF EXECUTIVES:
Sec. & Gen. Mgr.—John A. C. Warner.
Asst. Gen. Mgr.—Joseph Gilbert.
Technical Committee Div. — M. L. Stoner, Mgr.
Membership & Sections Div.—Hollister Moore, Mgr.
Administrative Div.—J. C. Hollis, Mgr.
Editor SAE Journal — Norman G. Shidle.
SAE Technical Committee Activities Office—808 New Center Bldg., Detroit, Mich., J. G. Gaudaen, Mgr.
SAE Western Branch Office—714 W. Olympic Blvd., Los Angeles 15, Cal., E. W. Rentz, Jr., Mgr.
(See also listing under SAE Sections and Groups)

**TRANSPORTATION ASSN. OF AMERICA** (1935), 1001 Connecticut Ave., N.W., Washington 6, D. C., Harold F. Hammond, Exec. V. P., 6 N. Michigan Ave., Chicago 2, Edith C. Krogh, Sec.

**TRUCK BODY AND EQUIPMENT ASSN., INC.** (1948), 401-402 Washington Bd. of Trade Bldg., 1616 K St., N.W., Washington 6, D. C., Arthur H. Nuesse, Exec. Mgr.

**TRUCK-TRAILER MANUFACTURERS ASSN., INC.** (1941), Room 710, Albee Bldg., 1426 G St. N.W., Washington 5, D. C., John B. Hulse, Mgr.-Dir.

**WESTERN HIGHWAY INSTITUTE** (1947), 130 Montgomery St., San Francisco 4, Cal., John L. Springer, Exec. Dir.

## STATE AND SECTIONAL BUS ASSOCIATIONS

**ALABAMA BUS ASSN.**, 520 N. Court St., Montgomery, Ala., Luther Vines, Sec.

***ARIZONA BUS ASSN.**, 313 North 1st St., Phoenix, Ariz., R. N. Dick, Sec.-Treas.

***ARKANSAS BUS AND TRUCK ASSN.** (See State Motor Truck Assn.)

***CALIFORNIA BUS ASSN.** (1955), 1322 Webster St., Oakland, Cal., J. R. Worthington, Sec.-Mgr.

**CONNECTICUT MOTOR STAGE ASSN.**, Webster St., Oakland, Cal., Harvey Scott, Mgr.

**SOUTHEASTERN BUS TRAFFIC ASSN., INC.**, Division National Bus Traffic Assn., 81 Cain St., N.W., Atlanta, Ga., Mrs. Mary H. Williams, Sec.-Mgr.

***ILLINOIS BUS ASSN.** (1925), 523 E. Capitol Ave., Springfield, Ill., Miss Altoe Nelson, Exec.-Sec.

***INDIANA BUS ASSN., INC.** (1935), 218 Bankers Trust Bldg., Indianapolis 4, Ind., Harry J. Harman, Sec.

**KENTUCKY PASSENGER BUS ASSN.** (1937), 801 No. Limestone St., Lexington 15, Ky., W. E. Jones, Sec.-Treas.

**NEW ENGLAND TRANSIT CLUB**, 10 High St. Boston 10, Mass., Ralph D. Baker, Sec.

**MARYLAND MOTOR BUS OPERATORS ASSN., INC.**, 2600 N. Howard St., Baltimore, R. W. Van Atta, Pres.

***MICHIGAN MOTOR BUS ASSN.** (1921), 404 Hollister Bldg., Lansing, Mich., Edna Wenzlick, Sec.

**MISSOURI BUS & TRUCK ASSN.** (1937), 628 Jefferson St., Jefferson City, U. G. Lewellen, Mgr.

***NEW ENGLAND BUS ASSN.**, 251 Washington St., Geneva, N. Y., Leon A. Penoyer, Exec. Sec.

***NEW JERSEY MOTOR BUS ASSN., INC.** (1935), 921 Bergen Ave., Jersey City, N. J., Nathaniel L. Fish, Sec.-Treas.

***INTERCITY BUS ASSN. OF NEW YORK STATE, INC.** (1938), 630 City & County Savings Bank Bldg., Albany 7, N. Y., Ruth Stracher, Exec. Sec.

**NEW YORK STATE MOTORBUS ASSN., INC.** (1934), D. & H. Bldg., 19-20 Plaza, Albany 7, Maj. Gen. B. T. Fay, Exec. V. P. & Sec.

**NORTHEASTERN BUS TRAFFIC ASSN.**, c/o National Bus Traffic Assn., Inc., 506 S. Wabash Ave., Chicago 5, Ill., V. D. Morris.

***OHIO MOTOR BUS ASSN.** (1922), 12 N. 3rd St., Columbus 15, Ohio, Alex Hogg, Sec.-Treas.

**ASSOCIATED MOTOR CARRIERS OF OKLAHOMA, INC.** (1932), Suite 2315, Biltmore Hotel, P. O. Box 983, Oklahoma City, Okla., Fisher Muldrow, Exec. V. P.

***OREGON BUS ASSN.** (1933), 509 S.W. Taylor St., Portland 4, Ore., R. K. Reed, Sec.-Treas.

***PENNSYLVANIA BUS ASSN.** (1923), Telegraph Bldg., Locust & Court Sts., Harrisburg, Pa., Jennie B. Brugnont, Exec. Sec.

***TEXAS MOTOR BUS ASSN., INC.**, 211 W. 14th St., Austin, Tex., J. Manley Head, Sec.-Mgr.

**TRI-STATE MAINTENANCE ASSN.**, c/o Philadelphia Suburban Trans. Co., 69th St. Terminal, Upper Darby, Pa., Walter A. Lorentz, Sec.

***VIRGINIA PASSENGER BUS ASSN.**, Box 7236, Richmond 21, Va., Harris Mitchell, Exec.-Sec.

***MOTOR COACH ASSN. OF WASHINGTON** (1920), Olympia, Wash., Mrs. Mary Matthias, Asst. Secy.

***WEST VIRGINIA BUS ASSN.** (1924), Kan Valley Bank Bldg., Charleston, W. Va., H. W. Hanna, Jr., Sec.

*Affiliated with National Association of Motor Bus Operators.

## AMERICAN ROAD BUILDERS ASSN. CONTRACTORS DIVISION STATE AFFILIATES

**ALABAMA:** E. N. Rodgers, Engr.-Mgr., Alabama Road Builders' Assn., 215 Bell Bldg., Montgomery 4.

**CAROLINAS:** S. C. Austin, Mgr. Highway & Heavy Div., Carolinas Br., A.G.C., Sir Walter Hotel, Raleigh, N. C. (N.C.&S.C.)

**FLORIDA:** Sam P. Turnbull, Engr.-Dir., Florida Road Builders Assn., Cherokee Hotel, Box 1208 Tallahassee.

**GEORGIA:** Paul L. Andrews, Exec. Sec., Georgia Highway Contractors Assn., 603 Forsyth Bldg., Atlanta.

**ILLINOIS:** Taylor G. Soper, Exec. Sec., Illinois Road Builders Assn., 228 N. LaSalle St., Chicago 1.

**MARYLAND:** William E. Hardy, Exec. Sec. Maryland Highway Contractors' Assn., 609 Wilson Pl., Frederick, Md.

**MICHIGAN:** C. J. Carroll, Exec. Sec., Michigan Road Builders Assn., 2000 Michigan National Tower, Lansing 8.

**MISSISSIPPI:** R. A. Harris, Engr.-Dir., Mississippi Road Builders Assn., 308 Robert E. Lee Hotel, Jackson.

**NEW ENGLAND:** Gordon E. Gaffney, Exec. Sec., New England Road Builders Assn., 20 Kilby St., Boston 9, Mass. (Maine, N. H., Vt., R. I., Conn., Mass.)

**OHIO:** Charles E. McKee, Exec. Sec., Ohio Contractors Assn., 40 W. Gay St., Room 300, Columbus.

**PENNSYLVANIA:** A. E. O'Brien, Exec. Sec., Associated Pennsylvania Constructors, 600 N. Third St., Harrisburg.

**TENNESSEE:** Leslie T. Hart, Sec.-Treas., Tennessee Road Builders Assn., Hermitage Hotel, Nashville 3.

**TEXAS:** James M. Richards, Sec.-Mgr., Texas Road Builders Assn., Driskill Hotel, Austin 61.

**VIRGINIA:** Archer B. Gay, Engr.-Dir., Virginia Road Builders Assn., King Carter Hotel, Richmond 19.

**W. VIRGINIA:** W. T. Brice, Exec. Sec., West Virginia Contractors Assn., P.O. Box 386, 409 Capitol St., Charleston 22.

**WISCONSIN:** E. E. Hoebel, Exec. Sec., Wisconsin Road Builders Assn., 1 W. Main St., Madison 3.

## LOCAL FLEET ASSOCIATIONS

**SOCIETY OF FLEET SUPERVISORS OF GREATER MIAMI**, P. O. Box 267, Riverside Station, Miami 10, Fla., H. G. Schaeper, Sec.

**FLEET SUPERVISORS ASSN.** (1951), 1215 Woodland Ave., S.E., Atlanta, Ga., P. C. Wade, Pres.

**MIDWEST FLEET SAFETY SUPERVISORS ASSN.**, P.O. Box 3576, St. Paul, Minn., Harold L. Taylor, Sec.

**GREATER KANSAS CITY FLEET MAINTENANCE ASSN.**, 4838 Woodend, Kansas City 6, Kans., J. B. Anderson, Sec.

**MAINTENANCE COUNCIL N. CAROLINA MOTOR CARRIERS ASSN.** (1953), c/o Carolina Freight Carriers Corp., Cherryville, N. C., Thomas E. Harmon, Pres.

**SOCIETY OF FLEET SUPERVISORS, INC.** (New York) (1945), 765 Janos Lane, West Hempstead, N. Y., Dennis J. Corbeel, Sec.

**MOTOR TRUCK MAINTENANCE CLUB OF NEW YORK** (1925), c/o Ledyard H. Pfund, Sec.-Treas., United Parcel Service, 331 E. 38th St., New York 16, N. Y.

**TRUCK AND BUS MAINTENANCE ASSN. OF BUFFALO INC.**, 189 S. Meadow Dr., N. Tonawanda, N. Y., William A. Rose, Sec.

**OKLAHOMA CITY FLEET SUPERVISORS ROUNTABLE**, 319 Hales Bldg., Oklahoma City, Okla., Floyd Ray, Chairman.

**FLEET MAINTENANCE ASSN. OF PHILADELPHIA, INC.** (1948), 16 Dechert Rd., Conshohocken, Pa., Jack R. Schaefer, Sec.

**FLEET MAINTENANCE COUNCIL INC. OF AKRON**, 200 Carroll St., Akron, Ohio, Clyde Lang, Sec.

**MUNICIPAL LICENSE TAX ASSN.**, 1625 Russ Bldg., San Francisco 4, Cal., P. A. Anderson, Exec. V. P.

## STATE MOTOR TRUCK

(Affiliated with American Trucking

**ALABAMA TRUCKING ASSN., INC.** (1936), Bell Bldg., Montgomery, J. I. Ritchie, Gen. Mgr.

**ARIZONA MOTOR TRANSPORT ASSN.** (1939), Suite 642-43, New First Nat'l Bank Bldg., Phoenix, Ellis Wyatt, Man. Dir.

**ARKANSAS BUS & TRUCK ASSN. INC.** (1942), P. O. Box 2798, Little Rock, Marion G. Ward, Mgr. (Also buses.)

***PRIVATE TRUCK OWNERS BUREAU OF CALIF.**, 1625 Russ Bldg., San Francisco 4, Alan G. Anderson, Sec.

***AUTOMOTIVE COUNCIL OF LOS ANGELES, INC.**, P. O. Box 2272, Terminal Annex, Los Angeles 54, J. W. Williams, Pres.

**CALIFORNIA TRUCKING ASSNS. INC.** (1955), 3301 S. Grand Ave., Los Angeles 7, Wade Sherrard, Man. Dir. (Also offices at 841 Folger Ave., Berkeley; Room 219 Hotel Senator, Sacramento; and 155 S. Van Ness, Fresno.)

**COLORADO MOTOR CARRIERS ASSN.** (1939), 4060 Elati St., Denver, Ben Bezoff, Man. Dir.

**MOTOR TRANSPORT ASSN. of CONNECTICUT, INC.** (1930), 410 Asylum St., Hartford 3, John F. Maerz, Exec. V. P.

**DELAWARE MOTOR TRANSPORT ASSN.** (1939), P. O. Box 446, Wilmington 99, Fred J. Sievers, Jr., Gen. Mgr.

**DISTRICT OF COLUMBIA TRUCKING ASSN. INC.** (1934), 1424 16th St., N.W., Washington 6, D. C., John R. Scott, Exec. Sec.

**FLORIDA TRUCKING ASSN. INC.** (1934), 704 Gilmore St., Jacksonville, C. A. Gertner, Gen. Mgr.

**GEORGIA MOTOR TRUCKING ASSN. INC.** (1934), 328 Ponce De Leon Ave., N.E., Atlanta, Sims Garrett, Jr., Exec. V. P.

**IDAHO MOTOR TRANSPORT ASSN.** (1939), 203 Eastman Bldg., Boise, Kenneth Hartzler, Man. Dir.

**CENTRAL MOTOR FREIGHT ASSN. INC. of ILL.**, Suite 1111, 343 S. Dearborn St., Chicago 4, William Noorlag, Jr., Gen. Mgr.

**ILLINOIS MOTOR TRUCK OPERATORS ASSN. INC.** (1924), 30 N. LaSalle St., Chicago, Walter E. McCarron, Exec. Dir.

**INDIANA MOTOR TRUCK ASSN. INC.** (1932), 2905 N. Meridian St., Indianapolis, James Nicholas, Exec. Sec.

***PRIVATE TRUCK OWNERS of INDIANA, INC.**, 1127 Central Ave., Indianapolis 2, C. W. Abraham, Sec.

**IOWA MOTOR TRUCK ASSN. INC.** (1943), 604 Capitol City Bank Bldg., Des Moines, LeRoy Crowley, Sec. Mgr.

**KANSAS MOTOR CARRIERS ASSN. INC.** (1936), 2900 S. Topeka Blvd., Topeka, J. R. Halladay, Man. Dir.

**KENTUCKY MOTOR TRANSPORT ASSN., INC.** (1924), 709-11 Republic Bldg., Louisville 2, Lew Ullrich, Man. Dir.

**LOUISIANA MOTOR TRANSPORT ASSN. INC.** (1939), 1216 Main St., Box 1326, Baton Rouge, James P. Babington, Exec. Dir.

**MAINE TRUCK OWNERS ASSN.** (1946), Rm. 313, 415 Congress St., Portland, Edward G. Hough, Acting Exec. Sec.

**MARYLAND MOTOR TRUCK ASSN. INC.** (1935), 3000 Washington Blvd., Baltimore, Thomas E. Widerman, Gen. Mgr.

**MASSACHUSETTS MOTOR TRUCK ASSN. INC.** (1919), 262 Washington St., Boston 8, John M. Bresnahan, Exec. V. P.

**MICHIGAN TRUCKING ASSN. INC.** (1934) 376 Fort Shelby Hotel, Detroit 26, William W. Johnston, Man. Dir.

**MINNESOTA MOTOR TRANPORT ASSN.** (1932), 2451 University Ave., St. Paul, Oscar Z. Remsberg, Exec. V. P.

**MISSISSIPPI TRUCKING ASSN. INC.** (1943), Box 120, King Edward Hotel, Jackson, C. R. Bradley, Mgr.

**MISSOURI BUS & TRUCK ASSN.** (1937), 628 Jefferson St., Jefferson City, U. G. Lewellen, Sec.

**MONTANA MOTOR TRANSPORT ASSN.** (1938), 912 Wyoming Ave., Box 1244, Billings, Leonard W. Eckel, Man. Dir.

## SCHOOLS OFFERING

**ALABAMA:** M. O. Hulsey, Trade and Industrial Education Dept., Box 1813, University of Alabama, University, Ala.

**ARIZONA:** J. D. Park, College of Engineering, University of Arizona, Tucson, Ariz.

**CALIFORNIA:** (1) Bob Glenn, Institute of Transportation and Traffic Engineering, University of California, Berkeley 4, Cal. (2) J. H. Mathewson, Institute of Transportation and Traffic Engineering, University of California, Los Angeles 24, Cal.

**COLORADO:** W. M. Lewis, Community College Civic Center, University of Denver, Denver 2, Colo.

**CONNECTICUT:** A. L. Jeffurs, Extension Division, University of Connecticut, Storrs, Conn.

**FLORIDA:** (1) G. M. Turner, General Extension Division, University of Florida, Gainesville, Fla. (2) S. P. Messer, Safety Education, University of Miami, Coral Gables 46, Fla. (3) W. L. Hooper, Trade and Industrial Education, Jacksonville School of Technology, Jacksonville, Fla. (4) L. B. Tyndall, Board of Public Education, P. O. Box 391, Bartow, Fla. (5) M. J. Casto, Mary Karl Vocational School, P. O. Box 1111, Daytona Beach, Fla. (6) C. A. Bellum, Sarasota Vocational School, Sarasota, Fla. (7) K. F. Johnson, Palm Beach County Vocational School, West Palm Beach, Fla. (8) J. C. Burnsted, Broward County Vocational School, Fort Lauderdale, Fla. (9) H. A. Heiser, Dean, Adult Education Center, University of Tampa, Tampa, Fla.

**GEORGIA:** (1) W. N. Cox, Jr., School of Industrial Engineering, Georgia Institute of Technology, Atlanta, Ga. (2) J. H. Lemly, Georgia State College of Business Administration, Atlanta 3, Ga.

**HAWAII:** Edward M. Freyer, Hawaii Employers Council, 1139 Kapiolani Blvd., Honolulu 14.

**ILLINOIS:** (1) G. V. Carmichael, The Traffic Institute, Northwestern University, Evanston, Ill. (2) Robert Newton, College of Commerce and Business Administration, University of Illinois, Urbana, Ill. (3) K. M. Hutchison, Heavy Equipment Division, Greer Shop Training, Inc., 2230 South Michigan Ave., Chicago 16, Ill.

**INDIANA:** D. A. Weaver, Public Safety Institute, Purdue University, Lafayette, Ind.

**IOWA:** M. E. Gould, Engineering Extension Services, Iowa State College, Ames, Iowa.

**KANSAS:** (1) Marvin Criqui, Lawrence Center, University Extension, University of Kansas, Lawrence, Kan. (2) N. W. Rickhoff, Extension Center, University of Kansas, Kansas City, Kan.

**KENTUCKY:** Lew Ullrich, Kentucky Motor Transport Assn., 601 Republic Bldg., Louisville 2, Ky.

**LOUISIANA:** J. P. Dyer, University College, Tulane University of Louisiana, New Orleans 18, La.

**MARYLAND:** J. B. Blackburn, Glenn L. Martin College of Engineering and Aeronautical Sciences, University of Maryland, College Park, Md.

**MASSACHUSETTS:** F. M. Cushman, Traffic Management Institute (traffic and transportation courses), or H. V. LeMark, Bureau of Business and Industrial Training (fleet training courses) Northeastern University, Boston 15, Mass.

**MICHIGAN:** (1) J. C. Kohl, Dept. of Civil Engineering, University of Michigan, Ann Arbor, Mich. (2) Paul B. Blomgren, Highway Safety Center, Michigan State University, East Lansing, Mich. (3) David H. Soule, Div. of Field Services, Eastern Michigan College, Ypsilanti, Mich. (4) Homer A. Earl, Dir. of Field Services, Western Michigan University, Kalamazoo, Mich.

**MINNESOTA:** F. E. Berger, Center for Continuation Study, University of Minnesota, Minneapolis 14, Minn.

**MISSISSIPPI:** (1) O. D. Smith, Evening and Center Courses, University Extension, University of Mississippi, University, Miss. (2) M. N. Inman, Millsaps Center, University of Mississippi, Jackson, Miss.

## ASSOCIATIONS

Assns., Inc., except as noted.)

**NEBRASKA MOTOR CARRIERS ASSN. INC.** (1924), Suite A, 500 S. 13th St., Lincoln, Paul Halpine, Sec.

**NEVADA MOTOR TRANSPORT ASSN.** (1939), 1093 S. Virginia St., Box 2168, Reno, Robert Guinn, Sec. Mgr.

**NEW HAMPSHIRE TRUCK OWNERS ASSN. INC.** (1936), Box 665, 275 Hanover St., Manchester, A. J. Staby, Sec. Mgr.

**NEW JERSEY MOTOR TRUCK ASSN. INC.** (1915), 10 Hill St., Newark 2, D. J. Crecca, Exec. Dir.

**NEW MEXICO MOTOR CARRIERS ASSN.** (1938), Box 541, Albuquerque, Leslie R. Thomas, Man. Dir.

**EMPIRE STATE HIGHWAY TRANSPORTATION ASSN. INC.**, 44 E. 23rd St., New York 10, Jos. M. Adelizzi, Man. Dir.

**†PRIVATE TRUCK OWNERS, SHIPPERS AND SUPPLIERS of NEW YORK** (1957), c/o Borden Farms Product Div., 110 Hudson St., New York, T. A. Drescher, Pres.

**NORTH CAROLINA MOTOR CARRIERS ASSN. INC.** (1929), 219 W. Martin St., Raleigh, N. C., J. T. Outlaw, Exec. V. P.

**NORTH DAKOTA MOTOR CARRIERS ASSN. INC** (1935), 110 Third St., Bismarck, N. D., Edwin G. Kellner, Secy. Mgr.

**OHIO TRUCKING ASSN. INC.** (1918), Hotel Deshler-Hilton, Columbus, Ohio, Ellis S. Perlman, Man. Dir.

**ASSOCIATED MOTOR CARRIERS OF OKLAHOMA, INC.** (1932), P. O. Box 983, Suite 2315, Biltmore Hotel, Oklahoma City, Okla., Fisher Muldrow, Exec. V. P.

**OREGON TRUCKING ASSNS. INC.** (1939), 1401 N.W. 19th St., Portland, Ore., Robert R. Knipe, Mgr.

**PENNSYLVANIA MOTOR TRUCK ASSN. INC.** (1928), 7th Floor, Telegraph Bldg., Harrisburg, Pa., Edward Gogolin, Gen. Mgr.

**RHODE ISLAND TRUCK OWNERS ASSN. INC.** (1931), 49 Weybosset St., Providence 3, R. I., Mrs. L. M. Daly, Secy.

**MOTOR TRANSPORTATION ASSN. OF SOUTH CAROLINA, INC.** (1933), 2425 Devine St., Columbia, S. C., William B. Love, Jr., Gen. Mgr.

**ASSOCIATED MOTOR CARRIERS, INC. OF SOUTH DAKOTA** (1937), P. O. Box 496, 814 E. Rice St., Sioux Falls, S. D., E. R. Nelson, Gen. Mgr.

**TENNESSEE MOTOR TRANSPORT ASSN., INC.** (1934), Hermitage Hotel Office Bldg., Nashville 3, R. Stanley Owens, Mgr.

***PRIVATE TRUCK OWNERS ASSN. OF TEXAS, INC.**, Box 1091, Littlefield Bldg., Austin, Carl C. Hardin, Exec. V. P.

**TEXAS MOTOR TRANSPORTATION ASSN., INC.** (1932), 406 E. 11th St., P. O. Box 93, Austin 61, James E. Taylor, Exec. Dir. (Also buses.)

**UTAH MOTOR TRANSPORT ASSN. INC.** (1932), 208 W. 8th St., S., Box 686, Salt Lake City 4, L. Darrel Welling, Mgr.

**VERMONT TRUCK & BUS ASSOCIATION, INC.** (1934), P. O. Box 96, Burlington, Vt., Robert H. Ray, Clerk.

**VIRGINIA HIGHWAY USERS ASSN., INC.** (1931), Box 1397, Jefferson Hotel, Richmond 11, E. H. Williams, Jr., Exec. V. P.

**WASHINGTON MOTOR TRANSPORT ASSN., INC.** (1923), 4101 4th Ave., S., Seattle, William E. Hicks, Man. Dir.

**WEST VIRGINIA MOTOR TRUCK ASSN., INC.** (1936), 303 Duffy St., Box 5217, Charleston, Emmett J. Bush, Man. Dir.

**WISCONSIN MOTOR CARRIERS ASSN.** (1931), One W. Main St., Madison, John P. Varda, Gen. Mgr.

**WYOMING TRUCKING ASSN. INC.** (1940), 114 N. Market, Box 1889, Casper, Walter Kingham, Man. Dir.

*Affiliated with Private Truck Council of America, Inc.
† Independent.

## FLEET TRAINING COURSES

**MONTANA:** L. W. Eckel, Montana Motor Transport Assn., P. O. Box 1244, Billings, Mont.

**NEBRASKA:** R. W. Mills, University Extension Division, University of Nebraska, Lincoln 8, Nebr.

**NEVADA:** P. R. Kelly, Evening Sessions, University of Nevada, Reno, Nev.

**NEW HAMPSHIRE:** F. H. Plaisted, University Extension Service, University of New Hampshire, Durham, N. H.

**NEW JERSEY:** W. J. Daw, University Extension Division, Rutgers University, New Brunswick, N. J.

**NEW MEXICO:** M. H. McMichael, Division of Extension, Summer Session and Community Services, University of New Mexico, Albuquerque, N. M.

**NEW YORK:** (1) Walter Cutter, Center for Safety Education, New York University, New York 3, N. Y. (2) B. R. Crandall, College of Business Administration, Syracuse University, Syracuse 10, N. Y. (3) Nicholas Kish, Millard Fillmore College, University of Buffalo, Buffalo, N. Y. (4) Donald Hoppe, Counselor, Rochester Institute of Technology, Rochester 3, N. Y. (5) H. N. Roehl, Evening Division, Broome Technical Institute, Binghamton, N. Y.

**NORTH CAROLINA:** (1) E. W. Ruggles, College Extension Division, North Carolina State College of Agriculture and Engineering, University of North Carolina, Raleigh, N. C. (2) National School of Heavy Equipment Operation, P. O. Box 8243, Charlotte, N. C.

**OHIO:** (1) D. J. Guzzetta, Division of Adult Education, University of Akron, Akron 4, Ohio. (2) L. E. Brown, School of Business, Western Reserve University, Cleveland 6, Ohio. (3) R. C. Osborne, University Evening Sessions, University of Toledo, Toledo, Ohio. (4) Emmittt Karrer, College of Engineering, Ohio State University, Columbus 10, Ohio. (5) E. T. Reilly, Business Organization Dept., Youngstown University, Youngstown, Ohio. (6) K. R. Miller, Ohio Mechanics Institute, Cincinnati, Ohio. (7) G. B. Tate, Safety Supervisor, Dayton City Schools, Dayton, Ohio.

**OKLAHOMA:** M. L. Powers, Business and Industrial Services, University of Oklahoma, Norman, Okla.

**OREGON:** William Engesser, Dept. of Industrial Engineering (supervisor courses) or W. H. Paul, Dept. of Mechanical Engineering (maintenance courses), Oregon State College, Corvallis, Ore.

**PENNSYLVANIA:** A. E. Neyhart, Institute of Public Safety, The Pennsylvania State University, University Park, Pa.

**RHODE ISLAND:** G. E. Case, Division of University Extension, Brown University, Providence, R. I.

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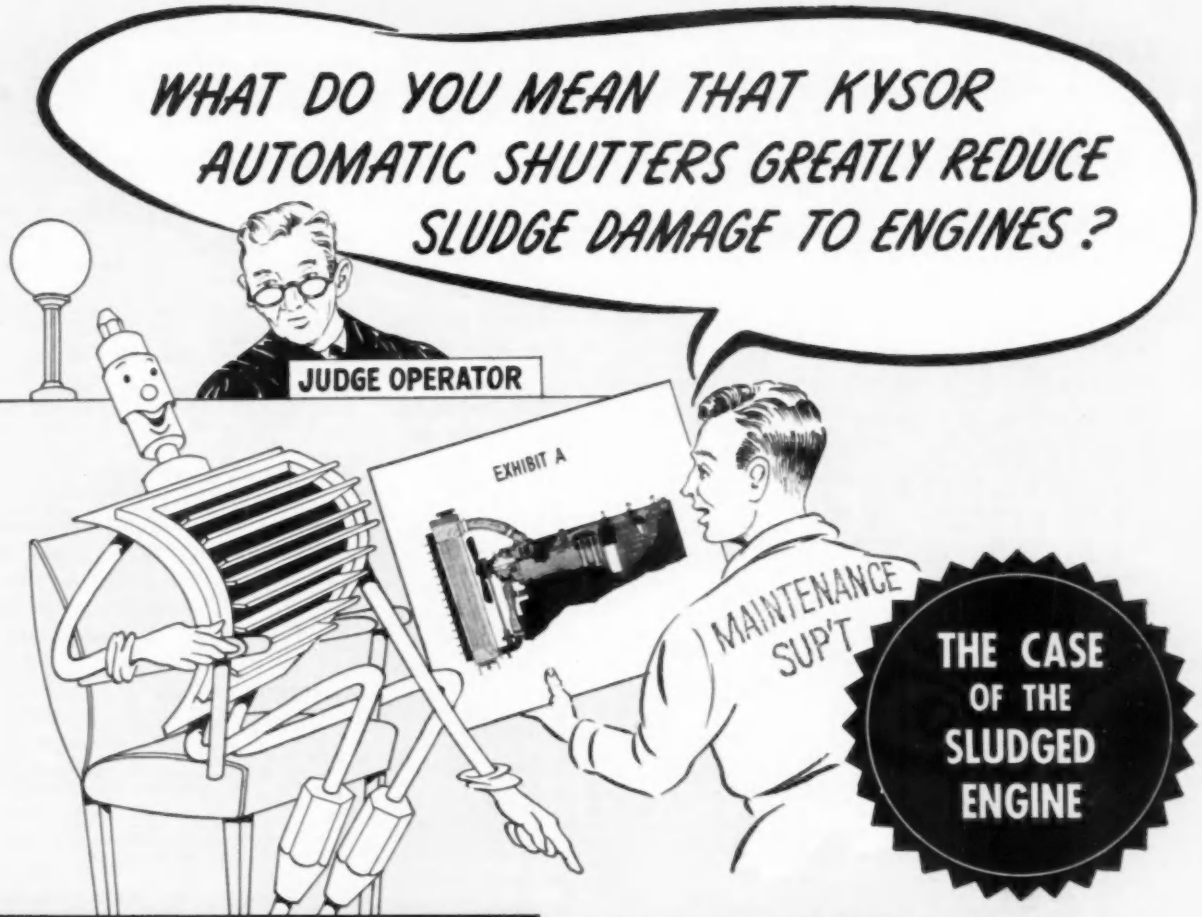

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Black Mfg. Co., 403 Penn St., Baltimore 30, Md.
Brown Corp., W. R., 2701 N. Normandy Ave., Chicago 35, Ill.
Brunner Div. Dunham-Bush Inc., 179 South St., West Hartford 10, Conn.
Buell Mfg. Co., 919 W. 49th Place, Chicago 9, Ill.
Campbell-Hausfeld Co., 211 Railroad Ave., Harrison, Ohio.
Cerlist Diesel Inc., 1709 N. Church St., Burlington, N. C.
Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Cochin Mfg. Co., J. D., 1440 E. Grand Ave., South San Francisco, Cal.
Curtis Mfg. Co., Pneumatic Div., 1927 Kienlen Ave., St. Louis 20, Mo.
Davey Compressor Co., Rotary Drill Div., 600 Franklin Ave., Kent, Ohio.
Dayton Air Compressor Co., 427 Valley St., Dayton 4, Ohio.
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
De Vilbiss Co., 300 Phillips Ave., Toledo 1, O.
Emglo Products Corp., 116 Du Dont St., Johnstown, Pa.
Erie Meter Systems, Inc., 1602 Wagner Ave., Erie, Pa.
Gardner-Denver Co., S. Front St., Quincy, Ill.
Gast Mfg. Corp., 2300 Highway M-139, Benton Harbor, Mich.
Grover Prods. Co., 1221 S. Hope St., Los Angeles 15, Calif. (Electric.)
H & H Products Mfg. Co., P. O. Box 2333 Terminal Annex, Los Angeles 54, Calif.
Ingersoll-Rand Co., Phillipsburg, N. J.
Jaeger Machine Co., 550 W. Spring St., Columbus 16, Ohio.
Joy Mfg. Co., 333 Oliver Bldg., Pittsburgh 22, Pa.
Keystone Compressor Co., 8407 Hegerman St., Holmesburg, Philadelphia 36, Pa.
Le Roi Div., Westinghouse Air Brake Co., 1706 S. 68th St., Milwaukee 14, Wis.
M. & E. Mfg. Co., 2571 Winthrop Ave., Indianapolis 6, Ind.
Midland-Ross Corp., Owosso Div., 490 S. Chestnut St., Owosso, Mich.
National Compress Corp., 933 W. Lake St., Chicago 7, Ill.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Pioneer Air Compressor Co., 120 Chambers St., New York, N. Y.
Power Brake Parts Mfg. Co., 8060 Wheeler Ave., Detroit 10, Mich.
Quincy Compressor Co., 217 Maine St., Quincy, Ill.
Saylor-Beall Mfg. Co., St. Johns, Mich.
Schramm, Inc., Virginia & Garfield Aves., West Chester, Pa.
Scott Air Compressor Co., 4682 Mulberry St., Philadelphia 24, Pa.
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Cal.
Southwest Pump Co., First and Center Sts., Bonham, Tex.
Supreme Equipment Corp., 12415 Euclid Ave., Cleveland 6, Ohio.
Thomas Industries, Inc., Electric Sprayit Div., 14th & Illinois Sts., Sheboygan, Wis.
Tokheim Corp., 1602 Wabash Ave., Fort Wayne 1, Ind. (Portable.)
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Wayne Pump Co., Salisbury, Md.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wilson, Inc., K. R., Arcade, N. Y.
Worthington Corp., Harrison, N. J.

### COMPRESSORS, Air, Power Take-off Type

Cooper-Bessemer Corp., Mount Vernon, Ohio.
Davey Compressor Co., 600 Franklin Ave., Kent, Ohio.
Power Brake Parts Mfg. Co., 3435 S. Racine Ave., Chicago 8, Ill.
Schramm, Inc., West Chester, Pa.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

**CONDENSER TESTERS, See Instruments, Electrical Circuit Testing**

### CONDENSERS, Ignition

American Bosch Corp., 3664 Main St., Springfield 7, Mass.
American Motor Products Co., Fond du Lac, Wis.
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
DSM Electric Co., John Lodge Expressway, Detroit 2, Mich.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Echlin Mfg. Co., U. S. Route 1, Branford, Conn.
Electric Auto-Lite Co., Toledo, Ohio.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Guaranteed Parts Co., Seneca Falls, N. Y.
Holley Carburetor Co., 11955 E. Nine Mile Rd., Van Dyke, Mich.
Kem Mfg. Co., 20 Wagaraw Rd., Fair Lawn, N. J.
M D. Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.
New York Coil Co., 42 Second Ave., Phoenixville, Pa.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill
P & D Mfg Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 140 Astor St., Newark 5, N. J.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Shurhit Products, Inc., Waukegan, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Sprague Electric Co., 344 Marshall St., North Adams, Mass.
Springfield Electrical Specialties, Inc., 120 Wooster St., New York 12, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, L. I., N. Y.
Tasco Products, Div. of Guaranteed Parts Co., Seneca Falls, N. Y.
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis.
Wico Electric Co., 42 Phelon Ave., West Springfield, Mass.

**CONNECTING ROD BEARINGS, See Bearings**

### CONNECTING RODS

Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. (Aluminum alloy.)
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. (Reconditioned, Rebabbitted.)
Canton Drop Forging & Mfg. Co., 207 12th St., S. E., Canton, Ohio.
Continental Motors Corp., Muskegon 82, Mich.
Gillett & Eaton, Inc., 8th & Doughty Sts., Lake City, Minn. (Aluminum.)
Niagara Motors Corps., Lampshire St., Dunkirk, N. Y.
Park Drop Forge Co., 777 E. 79th St., Cleveland 3, Ohio.
Parks Engineering, Inc., 347 E. Ward St., Milwaukee 7, Wis.
Pioneer Motor Bearing Co., Eddy St. & Van Ness Ave., San Francisco, Calif.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Div. Thompson Products, Inc., 6402 Cedar Rd., Cleveland 3, Ohio.

### CONNECTORS, Electrical Circuit, Trailer

Autac, Inc., Box 1071, New Haven, Conn.
Berg Mfg. & Sales Co., 1712 S. Michigan, Chicago 16, Ill. (Also voltage converters.)
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass. (Also voltage converters.)
Connecticut Telephone & Electric Corp., 85 Britannia St., Meriden, Conn.
Griffin Lamp Co., 401 S. 3rd St., Hamilton, Ohio.
Joy Mfg. Co., 333 Oliver Bldg., Pittsburgh 22, Pa.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kliegl Bros. Universal Electric Stage Lighting Co., 321 W. 50th St., New York, N. Y.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Pyle-National Co., 1334 N. Kostner Ave., Chicago 51, Ill.
S. & M. Lamp Co., 119 W. 36th Pl., Los Angeles 54, Calif.
Scintilla Magneto Div. of Bendix Aviation Corp., Sidney, N. J.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

**CONNECTORS, WIRE, See Terminals, Wire**
**CONTACT POINT ALIGNING TOOLS, See Tools, Ignition**
**CONTACT POINT FILES, See Files, Contact Point**
**CONTACT POINTS, See Points, Ignition**
**CONTROLS, ENGINE CUT OFF, See Switches, Ignition, Cut-Off**

### CONTAINERS, Cargo

(See also Trailers, Commercial)

Aerobilt Bodies, Inc., Grumman Aircraft Engineering Corp., Bethpage, Long Island, N. Y.
Brown Trailers, Inc., Box 54, Spokane 10, Wash.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Highway Trailer Co., 405 Easton Fulton St., Edgerton, Wis.
Trailmobile, Inc., 31st & Robertson Aves., Cincinnati 9, Ohio.

### CONVERTERS, Torque

Borg & Beck Div. Borg-Warner Corp., 6558 S. Menard Ave., Chicago 38, Ill.
Clark Equipment Co., Transmission Div., 1300 Falahee Rd., Jackson, Mich.
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.
Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo 13 F., Mich.
Funk Aircraft Co., 1211 W. 12th St., Coffeyville, Kansas.
Long Mfg. Div. of Borg-Warner Corp., 12501 Duquindre St., Detroit 12, Mich.
Terado Co., 1068 Raymond Ave., St. Paul 14, Minn.
Timkin-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.
Twin Disc Clutch Co., 1328 Racine St., Racine, Wis.
Western Gear Corp., 2600 E. Imperial Highway, Lynwood, Calif.

### COOLERS, Truck, Bus and Trailer

BEW Corp., 3055 E. 12th St., Los Angeles 23, Calif.
G & S Mfg. Corp., 2824 E. Washington St., Phoenix, Ariz. (Sole distributors Idler Products Co., 2824 E. Washington St., Phoenix, Ariz.)
Metal Products Engineering, Inc., 4000 Long Beach Ave., Los Angeles 58, Calif.
Spitzka Mfg. Co., 235 Colfax St., N., Sacramento, Calif.
Thermador Electrical Mfg. Co., 519 S. District Blvd., Los Angeles 22, Calif.

### COOLERS, Oil Temperature

G & O Mfg. Co., 138 Winchester Ave., New Haven, Conn.
Kewanee-Ross Corp., Buffalo, N. Y.
Yates-American Machine Co., Beloit, Wis.
Young Radiator Co., 709 S. Marquette St., Racine, Wis.

### CORD, Tire

American Enka Company, 206 Madison Ave., New York 16, N. Y.
American Tyrex Corp., 350 5th Ave., New York 1, N. Y.
American Viscose Corp., 350 Fifth Ave., New York 1, N. Y.
du Pont de Nemours & Co., E. I., Textile Fibers Dept., Wilmington 98, Del.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio. (Cotton, nylon and rayon.)
General Tire & Rubber Co., Englewood & Holmes Ave., Akron 9, Ohio.
Goodyear Tire & Rubber Corp., 1144 E. Market St., Akron 16, Ohio.
Industrial Rayon Corp., 660 Union Commerce Bldg., Cleveland 1, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 30, N. Y.

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- Holes
- Tears
- Leaks in

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- Fenders
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CORROSION PREVENTIVES, See Rust Preventives

## COUPLERS, Trailer

(See also "Connectors, Electrical")

**Acme Mfg. Co., 1406 Agnes St., Kansas City 27, Mo.**
**Atwood Vacuum Co., 1400 Eddy Ave., Rockford, Ill.**
**Austin Trailer Equipment Co.,** 1148 W. Western Ave., Muskegon, Mich.
**Berluti Mfg. Co., 2936 Bay Rd., Saginaw, Mich. (Utility.)**
**Campbell Co., H. D.,** 402 Dewey Ave., Rochelle, Ill.
Colson Corp., Elyria, Ohio.
Dalton Foundries Inc., Lincoln & Jefferson Sts., Warsaw, Ind.
Draw-Tite Co., Belleville, Mich. (Utility.)
Dutton-Lainson Co., Mfg. Div., Hastings, Neb.
Elkhart Welding & Boiler Works, Inc., 2132 S. **Main St., Elkhart, Ind.**
Foote Industries, 1010 S. Washington Ave., Lansing, Mich.
Foreman Mfg. Co., 5353 S. State St., Chicago 9, Ill.
**Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis.**
Gross-Given Mfg. Co., 301 Chestnut St., St. Paul 2, Minn.
Hammer Blow Tool Co., 602½ Third St., **Wausau, Wis.**
Holland Hitch Co., 430 W. 18th St., Holland, Mich.
**Ideal Mfg. Co., 1107 S. 7th St., Askaloosa, Iowa.**
**Independent Iron Works, Inc., 8th & Pine Sts., Oakland 20, Calif.**
Jordan Equipment Co., 2526 Wood St., Oakland 7, Calif. **(Aligner.)**
**McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo.**
**McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa. (Emergency chain.)**
Marvel Industries, Inc., Sturgis, Mich.
Mercury Mfg. Corp., 4700 W. Division St., Chicago 51, Ill.
**Premier Mfg. Co., 4434 S.E. 25th Ave., Portland 2, Ore.**
**Rapids Equipment Co., B. Ave. & Sixth St., N. W., Cedar Rapids, Iowa. (Cabin, sole distributors, Rapids Products Co., 220 Sixth St., N. W., Cedar Rapids, Iowa.)**
**Slimp Axle Products, Highway 99 West (Box 449), Colton, Calif.**
**Valley Tow-Rite Industries, 1231 S. Sacramento St., Lodi, Calif.**
**Weber trailer & Mfg. Co., 8400 E. Slawson Ave., Rivera, Calif. (Mailing address, P. O. Box 2473, Los Angeles 34, Calif.)**
**Wells, Inc., Martin, 5886 Compton Ave., Los Angeles 1, Calif.**
**Wood-Williams-Capp Mfg. Co., 3239 W. Michigan Ave., Ypsilanti, Mich.**

COUPLINGS, See Tube Fittings

## COVERINGS, Floor, Bus or Truck

Armstrong Cork Co., Industrial Div., Lancaster, Pa. (Linoleum.)
Moore & Co., Samuel, Mantua, Ohio. (Synthetic rubber.)

## COVERS, Radiator Grille

**Belmor Mfg. Co., 3326 W. Cermak Rd., Chicago 23, Ill.**
**Detroit Cover Co., 3410 W. Fort St., Detroit 16, Mich.**
**Henry Mfg. Co., 1310 Marquette St., Minneapolis, Minn.**
**Hinson Mfg. Co., Westfield Ave. & Menges St., Waterloo, Iowa.**
**Parker Products, Inc., 1415 Washington Ave., S., Minneapolis 4, Minn.**
**Temme & Co., W. H., 1027 Madison St., Oak Park, Ill.**

## COVERS, Truck

Ameratron, Inc., Div. of Textron-America, 1407 Broadway, New York, N. Y.
Acme Backing Corp., Canal & Ludlow Sts., Stamford, Conn.
**Clifton Mfg. Co., 323 Pleasant St., Waco, Texas.**
Du Pont Co., 2494 Nemours Bldg., Wilmington 98, Del.
East Akron Tarpaulin Co., 1048 Bank St., Akron 5, Ohio.
**Haarts-Mason, Inc., 270 Pleasant St., Watertown, Mass.**
Hoosier Tarpaulin & Canvas Goods Co., Inc., 1302 W. Washington St., Indianapolis 6, Ind. (Truck and trailer.)
Mt. Vernon-Woodberry Mills, Inc., Mercantile **Trust Bldg., N. Y., N. Y.**
**Pittsburgh Steel Products Co., Grant Bldg.,** Pittsburgh 30, Pa. (For handling tarpaulins.)
**Reeves Bros., Inc., Vulcan Rubber Products Div., 1071 Sixth Ave., New York, N. Y.**
**Turk Corp., C. K., 1122 Mishawaka Ave.,** South Bend 15, Ind. (For pickup trucks.)
**Turner Equipment Co., 432 St. Aubin St., Detroit 7, Mich.**
Turner Halsey Co., 40 Worth St., New York, N. Y.
U. S. Rubber, Mishawaka, Ind.
**Webb Mfg. Co., Fourth & Cambria Sts., Philadelphia 33, Pa.**

## CRANES, Crawler and Truck Mounted

American Hoist & Derrick Co., 2511 W. Taylor St., Fort Wayne 1, Ind.
**Automatic Transportation Co., Div., Yale & Towne Mfg. Co., 101 W. 87th St., Chicago 20, Ill.**
Hanson Clutch & Machinery Co., Wall & Miami Sts., Tiffin 15, Ohio.
Hartman Metal Fabricators Inc., 133 Murray St., Rochester 6, N. Y.
**Hyster Co., 2980 N. E. Clackamas St., Portland 8, Ore.; 1880 N. Adams St., Peoria 1, Ill.; 1080 Meyers St., Danville, Ill.**
**Link-Belt Speeder Corp., 1201 Sixth St., S. W., Cedar Rapids, Iowa.**
Memco, 1007 N.W. 36th St., Okla. City 18, Okla.
**Schield Bantam Co., Waverly, Iowa.**
Silent Hoist & Crane Co., 852 63rd St., Brooklyn 20, N. Y.
**Star Machine & Tool Co., 20 16th St., S.E., Minneapolis 14, Minn.**
Stratton Equipment Co., 2030 E. 105th St., Cleveland 6, Ohio.

## CRANES, Monorail

**American Monorail Co., 13107 Athens Ave., Cleveland 7, Ohio.**
Cleveland Crane & Engrg. Co., 5866 E. 238th St., Wilkliffe, Ohio.
**Detroit Hoist & Machine Co., 8350 Morrow St., Detroit 11, Mich.**
**Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis.**
Industrial Crane & Hoist, Ingersoll Products Div., Borg-Warner Corp., 1536 S. Paulina St., Chicago 8, Ill.
**Louden Machinery Co., 1102 West Ave., Fairfield, Iowa.**
**Michigan Crane & Conveyor Co., 115 N. McKinstry St., Detroit, Mich.**
Northern Engineering Wks., 210 Chene St., Detroit 7, Mich.

## CRANES, Portable, Hand Operated

(See also Hoists, Chain)

**Baker Mfg. Co., 154 W. Water St., Kankakee, Ill.**
Bradney Machine Co., 70 Monhagen Ave., Middletown, N. Y.
Cam Tool Co., 1038 Larkin St., San Francisco, Calif.
Chisholm-Moore Hoist Div. Columbus McKinnon Chain Corp., Fremont Ave., Tonawanda, N. Y.
Houdaille Industries, Inc., Manzel Div., 815 Babcock St., Buffalo 10, N. Y.
Hyster Co., 2980 N. E., Clackmas St., Portland, Ore.
Industrial Crane & Hoist, Ingersoll Products Div., Borg-Warner Corp., 1536 S. Paulina St., Chicago 8, Ill.
**Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Hydraulic.)**
**Lewis-Shepard Products, Inc., 125 Walnut St., Watertown 72, Mass.**
Manley Div. Douglas Motors Inc., 1234 N. 62nd St., Milwaukee 13, Wis.
Manning, Maxwell & Moore, Inc., Shaw-Box Crane & Hoist Div., Park & Broadway, Muskegon, Mich.
Manzel, Div. Houdaille-Hershey Corp., 815 **Babcock St., Buffalo 10, N. Y. (Hydraulic.)** N. Y. (Hydraulic.)
Round & Son, David, Box 883, Cleveland 22, Ohio.
Ruger Equipment, Inc., 615 W. 4th St., Uhrichsville, Ohio.
Sasgen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill.
Star Machine & Tool Co., 201 Sixth St., S.E., Minneapolis 14, Minn.
**Unit Mfg. Co., 1229 Harmon Pl., Minneapolis 3, Minn.**
U. S. Chemical & Supply Co., 400 E. 10th Ave., North, Kansas City 16, Mo.

## CRANES, Service Truck

Auto Truck Steel Body Co., 3040 Carroll Ave., Chicago 12, Ill.
Burtchaell Heating Co., 2944 S. E. Powell Blvd., Portland 2, Ore. (Electric.)
Cam Tool Co., 1038 Larkin St., San Francisco, Calif.
Cemco Industries, Inc., First National Bank Bldg., Galion, Ohio. (Fifth wheel mount.)
Daybrook Hydraulic Div., L. A. Young Spring & Wire Corp., Bowling Green, Ohio.
Gar Wood Industries, Inc., Wayne, Mich.
Guibert Steel Co., 4001 Windgap Ave., Pittsburgh 4, Pa.
**Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga 7, Tenn.**
**Howell Industrial Truck Co., 1083 Erie Cliff St., Cleveland 7, Ohio.**
**Hubbard Mfg. Co., Farmland, Ind.**
Manley Div. Douglas Motors Inc., 1234 N. 62nd St., Milwaukee 13, Wis.
**Rockford Crescent Mfg. Co., 420 Buckbee St., Rockford, Ill.**
**Ruger Equipment, Inc., 615 W. 4th St., Uhrichsville, Ohio. (Hydraulic.)**
**Sasgen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill.**
**Silent Hoist & Crane Co., 852 63rd St., Brooklyn 20, N. Y.**
Stanco Mfg. & Sales Inc., 1666 Ninth St., Santa Monica, Calif.
**Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.**
Stratton Equipment Co., 2030 E. 105th St., Cleveland 6, Ohio.
Uhrden Inc., 508 Grant St., Dennison, Ohio.
Unit Mfg. Co., 1229 Harmon Pl., Minneapolis 3, Minn.
Ven Corp., 2828 Newell St., Los Angeles 39, Calif. (Electric.)
**Watson Co., H. S., 1316 67th St., Emeryville, Calif.**
**Weld-Built Body Co., 5903 Preston Court, Brooklyn 34, N. Y.**

CRANKSHAFT, GRINDERS, See Grinders, Crankshaft

## CRAWLERS

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
J. I. Case Co., 700 State St., Racine, Wis.
Caterpillar Tractor Co., Peoria Zone 8, Ill.
Deere & Co., 3300 River Drive, Moline, Ill.
Euclid Div., General Motors Corp., 1361 Chardon Rd., Cleveland 17, Ohio.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
The Oliver Corp., 400 W. Madison St., Chicago 6, Ill.

## CREEPERS, Mechanic

Ashland Mfg. Co., 4003 Seven Mile Lane, Baltimore 8, Md.
**Balcrank, Inc., Disney St. nr. Marsburg, Cincinnati, Ohio.**
**Clinton Products Co., 701 Tecumseh Rd., Clinton, Mich.**
Cornwall Quality Tools Co., Magadore, Ohio.
Grigg Specialty Tools, 8103 Marbisa Ave., Huntington Park, Calif. (Top side.)
**Huffman Mfg. Co., Automotive Div., P. O. Box 310, Delphos, Ohio. (Metal, also wood.)**
**Kay-Wood Products, Inc., Bedford, Pa. (Wood.)**
Lawson Co., F. H., 801 Evans St., Cincinnati 4, Ohio.
P. & B. Specialties Co., 1406 Fairmount Ave., Philadelphia 30, Pa.
**Parker Prods. Co., Pollock Rd., Delaware, Ohio.**
**Smash-Proof Co., 6000 State Ave., Ashtabula, Ohio. (With or without brake.)**
Stream Line Tools Inc., Highway 70, Conover, N. C.
**Wilson, Inc., K. R., Arcade, N. Y.**

## CUSHIONS, Seat, Rubber

**Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis.**
**Dunlop Tire & Rubber Corp., Sheridan Drive & River Road, Buffalo 5, N. Y.**
**Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio. (Foamed latex.)**
**General Seating Co., 220 Main St., Topton, Pa.**
**Goodrich Co., B. F., Sponge Prods. Div., Howe Ave., Shelton, Conn.**
Goodyear Tire & Rubber Co., Akron 16, Ohio.
**Hewitt-Robins, Inc., 666 Glenbrook Rd., Stamford, Conn.**
**Karpex Mfg. Co., 1436 E. 19th St., Indianapolis 7, Ind.**

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## *twice the life*

## to cut signal light maintenance costs

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12-Volt—#534 flashes from one to six 21cp or 32cp lamps

## *— First in Flashers*

### CUSHIONS—continued

New York Rubber Corp., Airubber Div., 100 Park Ave., New York 17, N. Y.
Perma Seating Co., 8770 Kinsman Rd., Cleveland 4, Ohio.
United States Rubber Co., Rockefeller Center 1230 Ave. of the Americas, New York 20, N. Y.

### CUSHIONS, Seat, Spring

Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis.
Fort Pitt Mfg. Co., 1501 Preble Ave., N. S., Pittsburgh 33, Pa.
General Seating Co., 220 Main St., Topton, Pa.
Goshen Cushion & Body Co., N. Second St., Goshen, Ind.
Perma Seating Co., 8770 Kinsman Rd., Cleveland 4, Ohio.
Young Spring & Wire Corp., 9200 Russell St., Detroit 11, Mich.

### CUTTERS, Tubing, Hand

Armstrong Bros. Tool Co., 5200 W. Armstrong Ave., Chicago 30, Ill.
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Herbrand Div. Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill.
Kennedy Service Tools, Inc., 788 Evans Ave., Akron 5, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Miller Co., L. B., 336 W. Main St., Stamford, Conn.
Moffatt Products Inc., 4824 Triton Dr., Minneapolis 22, Minn.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Parker-Hannifin Corp., Parker Fittings & Hose Div., 17325 Euclid Ave., Cleveland 12, Ohio.
Penn Brass & Copper Co., 2837 W. 20th St., Erie, Pa.
Quality Tools Corp., Railroad St., New Wilmington, Pa.
Reed Mfg. Co., Box 1321, Erie, Pa. (Pipe.)
Rinck-McIlwaine Inc., 16 Hudson St., New York 13, N. Y.
Severance Tool Industries, Inc., 711 Iowa Rd., Saginaw, Mich.
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
Trimont Mfg. Co., Div. of St. Pierre Chain Corp., 50 Frank St., Worcester 4, Mass.
Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Fort Wayne, Ind.

**CYLINDER DE-GLAZERS, See De-Glazers, Cylinder**
**CYLINDER HONES, See Hones, Cylinder**
**CYLINDER, LINER, See Sleeves, Cylinder**
**CYLINDER LUBRICATORS, See Lubricators, Upper Cylinder**
**CYLINDER REBORING TOOLS, See Tools, Cylinder Reboring, Portable**
**CYLINDER RIDGE REAMER, See Reamers, Cylinder Ridge**

### DEAD AXLE DRIVES

Auto Transport Mfg. Co., P. O. Box 10, Malaga, Calif.
Dayton Sterkel Tandem V-Belt Drive Co., P. O. Box 1022, Dayton 1, Ohio.
Tandematic Dept., Gates Rubber Co., 999 South Broadway, Denver 17, Colo.

### DECALCOMANIAS

Allied Decals Inc., 8400 Hough Ave., Cleveland 3, Ohio.
American Decalcomania Co., Inc., 4326 5th Ave., Chicago 24, Ill.
Dicks Co., C. O., 8544 Grand River, Detroit 4, Mich.
Excello Specialty Co., 4111 E. 100 St., Cleveland 5, Ohio.
Jaco-Lac Decal Co., 234 S. Wells, Chicago 6, Ill.
Meyercord Co., 5323 W. Lake St., Chicago 44, Ill.
Ohio Decalcomania Co., 4103 E. 100 St., Cleveland 5, Ohio.
Palm Bros. Decalcomania Co., 3736 Regent St., Cincinnati, Ohio.
Palm, Fechteler Co., 85-99 Maple St., Weehawken, N. J.
Permalux Co., 500 Rathbone Ave., Aurora, Ill.
Screenmasters, 128 32nd St., Brooklyn 32, N. Y.

**DECELEROMETERS, See Meters, Brake Testing**

### DEFROSTERS, Glass Shield

Arvin Industries, Inc., 13th St. & Big Four R.R., Columbus, Ind.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Eaton Mfg. Co., E. 65th St. & Central Ave., Cleveland, Ohio.
Evans Products Co., 13101 Eckler's Rd., Plymouth, Mich. (Locking.)
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.
Henry Mfg. Co., 421 5th Ave. So., Minneapolis, Minn.
Western Cable & Light Co., 395 Sibley St., St. Paul, Minn.

**DEFROSTING FANS, See Fans, Defrosting**

### DEGASSERS, Bus

Fageol Co., R. D., Box 328, Kent, Ohio.

### DE-GLAZERS, Cylinder

Burd Piston Ring Co., Div. of Gabriel Co., 1401 23rd Ave., Rockford, Ill.
Hastings Mfg. Co., 275 E. Mill St., Hastings, Mich.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Storm-Vulcan Inc., 2225 Burbank St., Dallas 19, Tex.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.

**DEGREASERS, See Washers, Metal Parts**

**DEGREASING COMPOUNDS, See Solvents, Oil, Carbon and Grease Removing**

### DEPRESSORS, Brake Pedal

Bear Mfg. Co., 21st & Fifth Ave., Rock Island, Ill.
Bennett-Feragen, 1408 Jerome St., Niles, Mich.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Manbee Equipment, Div. of Bear Mfg. Co., P. O. Box 607, Rock Island, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.

**DERRICKS, See Cranes, Service Truck**

### DETERGENTS, Washing

Advance Century Mfg. Co., P. O. Box 781, Greenville, S. C.
Atomix, Inc., Box 486, Wilmington 99, Del.
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport 5, Conn.
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass.
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif.
Colorgio Products, Inc., 109 N. Newlin Ave., Whittier, Calif.
Commercial Solvents Corp., 260 Madison Ave., New York 17, N. Y.
Crystal Soap & Chemical Co., 6300 State Road, Philadelphia 35, Pa. (Soap.)
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa.
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.
Drew Co., E. F., 15 E. 26th St., New York, N. Y.
du Pont de Nemours & Co., E. I., Chemical Specialties Div., Wilmington, Del.
Fischer Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
International Metal Polish Co., 1910 Quill St., Indianapolis 7, Ind.
Jones Products, Inc., 276 Third St., Cambridge 42, Mass.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
Las-Stik Mfg. Co., Wayne & B Sts., Hamilton, Ohio.
Lavo Co. of America, 300 N. Seventh St., Milwaukee 3, Wis.
Lusk Co., C. F., 5918 Bonna Ave., Cleveland, Ohio.
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Magnuson Products Corp., 50 Court St., Brooklyn, N. Y.
Master Specialty Co., 3016 E. Lake St., Minneapolis 6, Minn.
Miller Mfg. Co., 1100 N. 32nd St., Camden, N. J. (Capsules.)
Motor Kool Products Co., 505 Buttles Ave., Columbus 8, Ohio.
Murphy-Phoenix Co., Div. of Phoenix Oil Co., 9505 Cassius Ave., Cleveland 5, Ohio.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Oronite Chemical Co., 38 Sansome St., San Francisco 4, Calif.
Penetone Co., 74 Hudson Ave., Tenafly, N. J.
Permo Products Co., 1629 Platte St., Denver 2, Colo.
Puritan Co., 961 Lyell Ave., Rochester 6, N. Y.
Seller Injector Corp., 1600 Hamilton St., Philadelphia 30, Pa.
Service Industries, 2103 E. Somerset St., Philadelphia 34, Pa.
Service Supply Co., 1115 Seventh St., Denver, Colo.
Shur-Gloss Mfg. Co., 3536 N. Knox Ave., Chicago 41, Ill.
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y.
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stanley Co., John T., 642 W. 30th St., New York 1, N. Y.
Tudor Chemical Specialties, Inc., 141 Woodworth Ave., Yonkers 2, N. Y.
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo.
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J.
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.
"X" Laboratories, Inc., 25 W. 45th St., New York 36, N. Y.
Zecol, Inc., 3270 S. Third St., Milwaukee 7, Wis.

**DIAL GAGES, See Gages, Dial**
**DIESEL ENGINES, See Engines, Diesel**
**DIESEL ENGINE FUEL FILTERS, See Filters, Diesel Fuel**
**DIESEL EQUIPMENT TESTERS, See Testers, Diesel Equipment**
**DIESEL FUEL, See Fuels, Engine**
**DIESEL INJECTOR EQUIPMENT, See Injector Systems, Gasoline & Diesel Engine**
**DIFFERENTIAL CLEANERS, See Flushers, Differential and Transmission**

### DIFFERENTIALS

Automotive Gear Div. of Eaton Mfg. Co., S. Eighth & C Sts., Richmond, Ind.
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. (Locking.)
Detroit Automotive Products Corp., 8701 Grinnell Ave., Detroit 13, Mich. (Automatic locking.)
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Dualoc Drive, Inc., 700 20th St., Rockford, Ill. (Locking.)
Fairfield Mfg. Co., State Rd. #52, Lafayette, Ind.
Gear & Forge Div. of Clark Equipment Co., Horton & Tyson Sts., Jackson, Mich.
New Process Gear Div. Chrysler Corp., 500 Plum St., Syracuse, N. Y.
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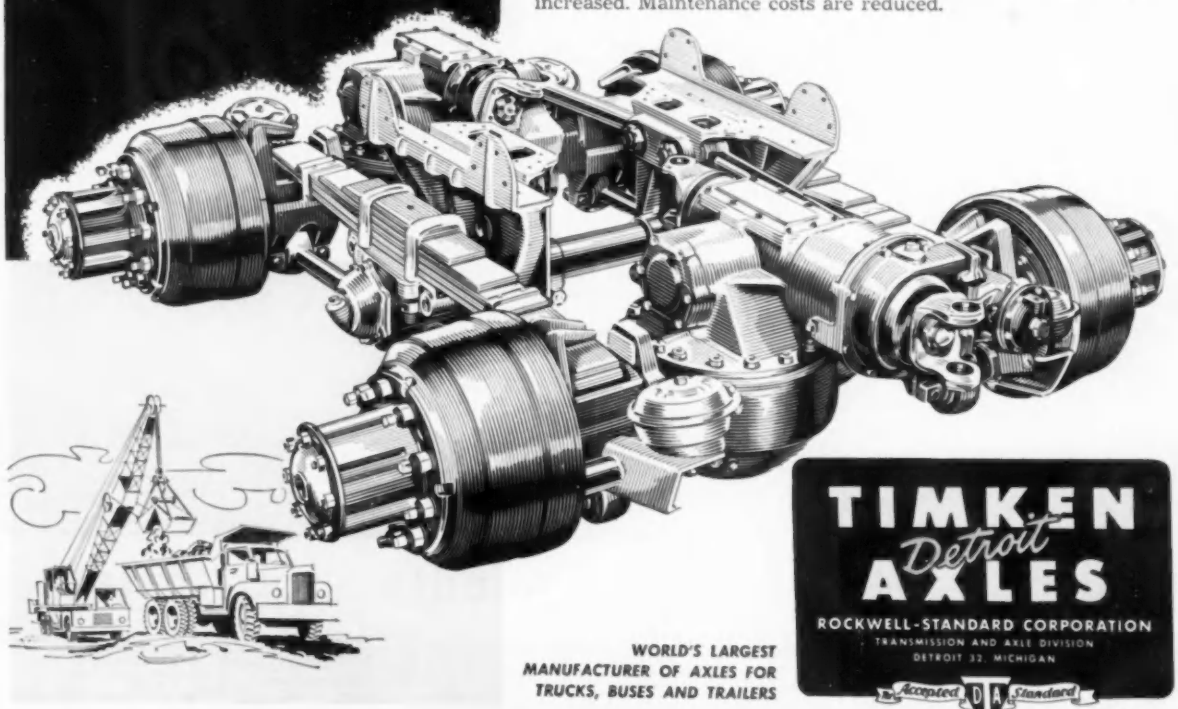

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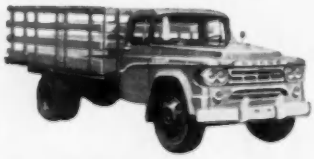

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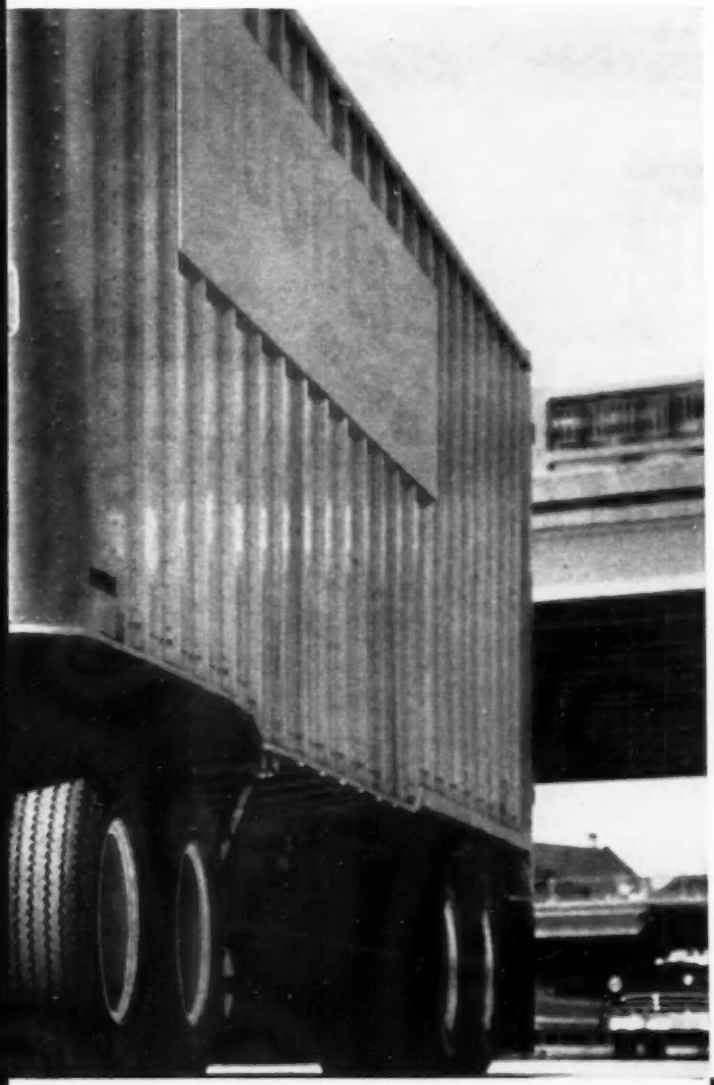

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**DIRECTIONAL SIGNALS, See Signals, Direction Indicating**

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Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Armour & Co., Cushioning Products Div. & Coated Abrasives Div., N. Benton Rd., Alliance, Ohio.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Bay State Abrasive Products Co., 12 Union St., Westboro, Mass.
Behr-Manning Corp., 4457 Howe St., Troy, N. Y.
Besley-Welles Corp., 20 N. Wacker Drive, Chicago 6, Ill.
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y. (Also sanding pads.)
Clover Mfg. Co., 327 Main St., Norwalk, Conn.
Field Abrasive Mfg. Co., 1303 Stanley Ave., Dayton 4, Ohio.
Gardner Machine Co., 444 E. Gardner St., Beloit, Wis
Mid-West Abrasive Co, 510 S. Washington St., Owosso, Mich.
Minnesota Mining & Mfg. Co., 900 Bush Ave., St. Paul 6, Minn.
Norton Co., 1 New Bond St., Worcester 6, Mass.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J.
Simonds Abrasive Co., Tacony & Fraley Sts., Philadelphia 37, Pa.

**DISPENSERS, GREASE, See Lubricators, Portable, High Pressure**

**DISTRIBUTOR PARTS, See Parts, Magneto, Coil and Distributor**

**DISTRIBUTORS, Ignition**

Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Electric Auto-Lite Co., Toledo 1, Ohio.
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.
Holley Carburetor Co., 11955 E Nine Mile Rd, Van Dyke, Mich.
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich. (Also combination governor and distributor.)
Paragon Products Corp., 140 Astor St., Newark 5, N. J.
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.
Wico Electric Co., 42 Phelon Ave., West Springfield, Mass.

**DISTRIBUTOR TESTING INSTRUMENTS, See Instruments, Distributor Testing**

**DOCKS, Adjustable—See Ramps, Truck Loading**

**DOLLIES, Axle**

Saginaw Products Corp., 68 Williamson St., Saginaw, Mich. (Trailer.)
Wilson, Inc., K. R., Arcade, N. Y. (Rear.)

**DOLLIES, Transmission**

Globe Hoist Co., E. Mermaid Lane at Queen St., Philadelphia 18, Pa.

**DOLLIES, Truck Wheel**

Alexander-Tagg Industries, Inc., Jacksonville Rd. & Summit Ave., Hatboro, Pa.
Bennett-Feragen, 1408 Jerome St., Niles, Mich.
Bernard Franklin Co., Hedley & Bath Sts., Phila. 37, Pa.
Cam Tool Co., 1038 Larkin St., San Francisco, Calif.
Clark-Feather Mfg. Co., 116 W. Railroad Ave., Fort Morgan, Colo.
Dixie Tallyho Inc., Fairburn, Ga.
Everhot Mfg. Co., 57 S. 19th Ave., Maywood, Ill.
Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.
Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa.
Ken-Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Immel Co., 502 N. Vermilion, Streator, Ill.
Meloox Mfg. Co., 4730 Avalon Blvd., Los Angeles, Cal.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 31, Calif.
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 4, Ind.
Unified Parts Inc., 35 Roetzer St., Buffalo 11, N. Y.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Whitewater Mfg. Co., 520 Jefferson St., Whitewater, Wis.

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Kinnear Mfg. Co., 2100 Fields Ave., Columbus 16, Ohio. (Steel rolling.)
Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio. (Steel.)
Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill. (Truck body.)
Truk-A-Door Co., 2457 Woodward Ave., Detroit, 1, Mich. (Roll-up.)

**DOORS, Truck, Steel**

Hackney & Sons, J. A., 400 Hackney Ave., Washington, N. C. (Plastic.)
Kinnear Mfg. Co., 2100 Fields Ave., Columbus 16, Ohio. (Rolling.)
Kirk & Blum Mfg. Co., 2901 Indiana Ave., Chicago, Ill.
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Truk-A-Door Co., 33 Henry St., Detroit 1, Mich. (Roll-up.)

**DRAINERS, Crankcase Oil, Portable and Rapid Type**

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Choldun Mfg. Corp., 331 East St., New Haven, Conn.
Lostro Inc., 2930 E. Highland Ave., Cincinnati 12, Ohio.
Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City 4, Okla.
Smith Mfg. Corp., Grover, 805 E. Valley Blvd., San Gabriel, Calif.
Supreme Equipment Corp., 12415 Euclid Ave., Cleveland 6, Ohio.
Wherry Engrg. Co., 3229 Morganford Rd., St. Louis 16, Mo.

**DRAIN PLUGS, Crankcase**

Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (Oversize.)
Chisholm Industries, Inc., 11 Commercial St., Lynn, Mass.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Houser Engng. & Mfg. Co., Bluffton, Ind. (Oversize.)
Inter-Continent Mfg. Co., 117 E. 13th St., Chicago 5, Ill.
Lisle Corp., 809 E. Main St., Clarinda, Iowa. (Magnetic.)
Magnetic Drain Plug Co., Wellington, Ohio. (Magnetic.)
Set Screw & Mfg. Co., 270 Main St., Bartlett, Ill.
Tourek Mfg. Co., J. J., 1901 S. Kilbourn Ave., Chicago 23, Ill.
U. S. Plug & Fitting Co., 1807 22nd St., N. E., Canton 5, Ohio. (Magnetic.)
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa. (Oversize.)
Weatherhead Co., 300 E. 131th St., Cleveland 8, Ohio.

**DRESSERS, Grinding Wheel**

Abrasive Dressing Tool Co., 14528 2nd Blvd., Detroit 3, Mich.
Black & Decker Mfg. Co., 692 Pennsylvania Ave., Towson 4, Ind.
Bunke-Musser Inc., Box 386, Jackson Center, Ohio.
Calder Mfg. Co., 630 N. Prince St., Lancaster, Pa.
Cleveland Industrial Tool Co., Box 84, Chardon, Ohio.
Desmond-Stephen Mfg. Co., 317 S. Walnut St., Urbana, Ohio.
Diamond Drill Carbon Co., 53 Park Row, New York, N. Y.
Diamond Tool Co., 246 Broadway, South Haven, Mich.
General Electric Co., Metallurgical Products Dept., 11777 E. 8 Mile Road, Detroit 32, Mich.
Hanchett Mfg. Co., 906 N. State St., Big Rapids, Mich.
Industrial Diamond Co., 2392 Wolcott Ave., Ferndale 20, Mich.
J. & S. Tool Co., 87 Dorsa Ave., Livingston, N. J.
Last Word Sales Co., 18500 Mt. Elliott Ave., Detroit 34, Mich. (Radius.)
Lee Co., E. O., Congress at First Ave., S. E. Aberdeen, S. D.
Metal Carbides Corp., 107 E. Indianola Ave., Youngstown 7, Ohio.
Moore Special Tool Co., 740 Union Ave., Bridgeport, Conn.
Pratt & Whitney Co., Charter Oak Blvd., W. Hartford, Conn.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Ross Mfg. Co., 6210 Carnegie Ave., Cleveland 3, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Standard Diamond Tool Corp., 71 W. 47th St., New York 36, N. Y.
Standard Tool Co., 3950 Chester Ave., Cleveland 14, Ohio.
Vincent Steel Process Co., 2424 Bellevue Ave., Detroit 7, Mich.
Wheel Trueing Tool Co., 3200 W. Davison Ave., Detroit 38, Mich.
Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.

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Boice-Crane Co., 930 W. Central Ave., Toledo 6, Ohio.
Cincinnati Lathe & Tool Co., Cincinnati 9, Ohio.
Cleereman Machine Tool Corp., 600 Elizabeth St., Green Bay, Wis.
Dumore Co., 1300 17th St., Racine, Wis.
Leland-Gifford Co., 1001 Southbridge St., Worcester 3, Mass.
Morris Machine Tool Co., 933 Harriet St., Cincinnati 3, Ohio.
Rockwell Mfg. Co., Delta Power Tool Div., 400 N. Lexington Ave., Pittsburgh 8, Pa.
South Bend Lathe Works, 425 E. Madison St., South Bend 22, Ind.
Walker-Turner Div., Kearney & Trecker Corp., 900 North Ave., Plainfield, N. J.

**DRILLS, Portable Electric**

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio. (P. O. Box 966.)
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Cummins Portable Tools Div. of John Oster Mfg. Co., 5055 N. Lydell Ave., Milwaukee 17, Wis.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Jones Motorola Corp., 432 Fairfield Ave., Stamford, Conn.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Kett Tool Co., 5055 Madison Road, Cincinnati 27, Ohio.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.
Portable Elec. Tools, Inc., 820 W. 83rd St., Chicago 20, Ill.
Porter-Cable Machine Co., 700 Marcellies St., Syracuse 4, N. Y.
Remington Arms Co., 939 Barnum Ave., Bridgeport 2, Conn.

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Speed Way Mfg. Co., 1421 Barnsdale Rd., La Grange Park, Ill.
Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.
United States Electrical Tool Div. Emerson Electric Mfg. Co., 1050 Findlay St., Cincinnati 14, Ohio.
Wen Products, Inc., 5806 Northwest Highway, Chicago 31, Ill.
Wilson, Inc., K. R., Arcade, N. Y.

**DRILLS, Portable Pneumatic**

Air-Speed Tool Co., 1502 W. Slawson Ave., Los Angeles 47, Calif.
Aro Equipment Corp., Bryan, Ohio.
Brown Tool Mfg. Co., 9422 Trenton Ave., St. Louis 14, Mo.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio. (P. O. Box 966.)
Chicago Pneumatic Tool Co., 6 E. 44th St., New York 17, N. Y.
Cleveland Pneumatic Tool Co., 3781 E. 77th St., Cleveland, Ohio.
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.
Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio.
Remington Arms Co., 939 Barnum Ave., Bridgeport 2, Conn.
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.
Skil Corp., 5033 Elston Ave., Chicago 30, Ill.
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.

**DRIVER TESTING EQUIPMENT, See Testers, Driver**

**DRIVERS, Bushing**

Cal-Van Machine Products, Inc., 801 S. Water St., Jackson, Mich.
Douglas Tool Co., 5251 Pattison Ave., St. Louis 10, Mo.
Hunt Mfg. Co., Geo. L., 106 Commercial St., Boscobel, Wis.
Kaywood Products Corp., 217 Clinton St., Jackson, Mich.
Miller Co., L. B., 336 W. Main St., Stamford, Conn.
Nasa Tool Mfg. Corp., 3427 Locust Corner Rd., Amelia, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Illinois.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

**DRUMS, Brake**

Al-Fin Div., Fairchild Engine & Airplane Corp., Deer Park, L. I., N. Y. (Aluminum fins bonded to cast iron.)
Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa. (Combination iron and steel.)
Campbell, Wyant & Cannon Foundry Co., Muskegon, Mich. (Sand cast; centrifused.)
Copperweld Steel Co., Glassport Div., Glassport, Pa. (Pressed steel with copper fins.)
Crosby Co., 183 Pratt St., Buffalo, N. Y. (Pressed steel.)
Dayton Steel Foundry Co., P. O. Box 1022, Dayton 1, Ohio.
Erie Malleable Iron Co. (Automotive Wheel Div.), 609 W. 12th St., Erie, Pa. (Cast alloyed iron.)
Frank Foundries Corp., 2020 Third Ave., Moline, Ill. (Iron.)
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill. (Iron.)
Homan & Co., 511 Reading Rd., Cincinnati 15, Ohio. (Iron.)
Hunt-Spiller Mfg. Corp., 383 Dorchester Ave., South Boston 27, Mass. (Iron for buses or trucks.)
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Cal. (Iron for truck trailers.)
Kelsey-Hayes Co., 3600 Military Ave., Detroit 32, Mich. (Composite iron and steel.)
Marathon Foundry & Machine Co., 1212 West St., Wausau, Wis.
Motor Wheel Corp., 7352 Saginaw St., Lansing 3, Mich.
Reynolds Mfg. Co., 600 Prospect Ave., Springfield 2, Mo. (Specially alloyed iron.)
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky. (Special alloy iron.)
Transue & Williams Steel Forging Corp., 600 Ely St., Alliance, Ohio. (Pressed steel.)

**DRYING LAMPS, See Lamps, Drying, Baking and Heating**

**DUMPERS (Construction & Off Highway)**

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Euclid Div., General Motors Corp., 1361 Chardon Rd., Cleveland 17, Ohio.
Koehring Co., 3026 W. Concordia Ave., Milwaukee 16, Wis.
LeTourneau-Westinghouse Co., Peoria, Ill.
Wooldridge Manufacturing Div., Continental Copper & Steel Industries, Inc., Hendy Ave., Sunnyvale, Calif.

**DYNAMOMETERS, Chassis Testing**

Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Hydraulic.)
Mid-West Dynamometer & Engineering Co., 3100 River Rd., River Grove, Ill. (Electric and hydraulic.)
Nankervis Co., George L., 15300 Fullerton St., Detroit 27, Mich.

**DYNAMOMETERS, Engine Testing**

Clayborne Mfg. Co., 429 N. Main St., Montecello, Ind.
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Hydraulic.)
Eaton Mfg. Co., Dynamatic Div., 3307 14th Ave., Kenosha, Wis. (Eddy current.)
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y. (Electric.)
Link Engrg. Co., 13840 Elmira Ave., Detroit 27, Mich. (Electric.)
Mid-West Dynamometer & Engineering Co., 3100 River Rd., River Grove, Ill. (Electric and hydraulic.)
Nankervis Co., George L., 15300 Fullerton St., Detroit 27, Mich.
Taylor Dynamometer & Machine Co., 6411 River Parkway, Milwaukee 13, Wis.
Toledo Scale Co., Telegraph Rd., Toledo 13, Ohio.
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.

**ELECTROLYTE, Battery**

American Cyanamid Co., 30 Rockefeller Plaza, New York 20, N. Y.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
du Pont de Nemours & Co., E. I., Grasselli Chemicals Dept., Wilmington 98, Del.
Gould-National Batteries, Inc., Industrial Div., 467 Calhoun St., Trenton 7, N. J.
Vitalyte Corp., 3976 N.W. 28th St., Miami, Fla.

**EMERY CLOTH, See Sandpaper**

**ENAMELS, Synthetic Resin Base**
**(See also Lacquers)**

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Akron Paint & Varnish Co., 1390 Firestone Parkway, Akron 1, Ohio.
American Lacquer Solvents Co., Perkiomen Junction, Phoenixville, Pa.
American Paint Co., 902 Larabee St., Chicago 10, Ill. "Dalax." (For commercial vehicles.)
American Varnish Co., 1138 North Branch St., Chicago 22, Ill.
Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio.
Automotive Finishes, Inc., P. O. Box 457, Northwestern Station, Detroit 4, Mich.
Baer Bros., 438 W. 37th St., New York, N. Y.
Bruning Bros., Inc., 4209 E. Chase St., Baltimore 5, Md.
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo.
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
Donahue Varnish Co., F. J. 10586 Knodell Ave., Detroit, Mich.
du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales, Wilmington 98, Del.
Dupli-Color Products Co., 2440 S. Michigan Ave., Chicago 16, Ill.
Flood & Conklin Co., 132 Chestnut St., Newark 5, N. J.
Forbes Finishes Div., Pittsburgh Plate Glass Co., 3800 W. 143rd St., Cleveland 11, Ohio.
Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn.
Glidden Co., 900 Union Commerce Bldg., Cleveland 14, Ohio.
Hock Paints, Inc., Box 190, Phoenixville, Pa.
Horn Co., A. C., Products Finishes Div., 10th St. & 44th Ave., Long Island City 1, N. Y.
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago, Ill.
Interstate Enamel & Varnish Co., 323 W. 15th St., Indianapolis, Ind.
Krylon Inc., Ford & Washington Sts., Norristown, Pa.
M-M-A Inc., Coho Bldg., Lancaster, Pa.
McDougall-Butler Co., 2929 Main St., Buffalo 14, N. Y.
Martin-Senour Co., 2500 Senour Ave., Chicago 8, Ill.
Midland Paint & Varnish Co., 3801 E. 91st St., Cleveland 5, Ohio.
Modern Paint Co., 305 Eastern Ave., Chelsea 50, Mass.
Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo.
Nason & Co., R. N., 151 Potrero Ave., San Francisco 3, Calif.
Oxidermo Products, Inc., Springport, Mich.
Pittsburgh Plate Glass Co., Paint Div., 1 Gateway Center, Pittsburgh 22, Pa.
Plasti-Kote, Inc., 9801 Harvard Rd. N.W., Cleveland 5, Ohio.
Rinshed-Mason Co., 5935 Milford St., Detroit 10, Mich.
Seymour of Sycamore, Inc., 218 Lucas St., Sycamore, Ill.
Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio.
Standard-Toch Chemicals, Inc., 2600 Richmond Terrace, Staten Island 3, N. Y.
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
V.E.P. Co., 440 E. Lafayette Ave., Detroit 26, Mich.
Vita-Var Corp., 46 Albert Ave., Newark, N. J.
Vulcan Varnish Co., 1108 W. Main St., Louisville, Ky.
Wilbur & Williams Co., 130 Lincoln St., Brighton, Mass.
Zac-Lac Paint & Lacquer Corp., 350 Simpson St., N.W., Atlanta 13, Ga.

**ENGINES, Butane and Propane (Bus and Truck)**

Continental Motors Corp., Muskegon, Mich.
Hall-Scott Inc., 2850 Seventh St., Berkeley 10, Calif.
Hercules Motors Corp., 101 Eleventh St. S.E., Canton 2, Ohio.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
Reo Motors Div. White Motor Co., 1331 S. Washington Ave., Lansing 20, Mich.
Waukesha Motor Co., W. St. Paul Ave., Waukesha, Wis.

**ENGINES, Diesel, Truck and Bus**

Allis-Chalmers Mfg. Co., Engine Material Handling Div., 1135 S. 70th St., Milwaukee 1, Wis.
Cerlist Diesel Inc., 1709 N. Church St., Burlington, N. C.
Continental Motors Corp., Muskegon 82, Mich. (Truck, tractor, bus.)
Cummins Engine Co., 1000 Fifth St., Columbus, Ind.
Curtis-Wright Corp., Utica, Mich. (Mercedes-Benz.)
Detroit Diesel Engine Div., General Motors Corp., 13400 W. Outer Dr., Detroit 28, Mich.
Diesel Energy Corp., 143 Liberty St., New York 6, N. Y. (Deutz.)
Fageol Products Co., 789 Stow St., Kent, Ohio.
Hall-Scott Inc., 2850 Seventh St., Berkeley 10, Calif.
Harnischfeger Diesel Engine Div., Crystal Lake, Ill.
Hercules Motors Corp., 101 11th St., S. E. Canton 2, Ohio.
Mack Trucks, Inc., 1355 W. Front St., Plainfield, N. J.

Safe emergency stops plus positive parking brakes . . . with

# FAWICK (NEATE) HAND BRAKE CONTROL

Fawick (Neate) Hand Brake Control provides same braking power as the regular service brake system — with these unmatched advantages:

**FULL POWER EMERGENCY BRAKE**

- positive, driver-controlled brake application.
- up to 12" cable take-up thru multi-stroke operation.
- equal brake loading without adjustment — self-compensating for uneven brake wear.
- standard 10-to-1 mechanical advantage; other ratios available.

**POSITIVE PARKING BRAKE**

- instantaneous or gradual release.
- no drive shaft vibration or unbalance from parking brakes.
- simple design — eases drive shaft angularity problems on short wheel-base vehicles.

**OTHER FEATURES**

- easy to install.
- easy to service.
- adaptable to any type axle (including tandem)

## New patented multi-stroke unit permits mechanical application of service brakes that meets and exceeds all conditions of I.C.C. regulations 193.40 and 193.41 as revised.

Now you can use the wheel brakes on the axle for emergency and parking! No longer need you depend on a drive shaft brake for this critical part of your braking requirement.

The FAWICK (Neate) Hand Brake Control enables your driver to apply *service brakes* mechanically for (1) emergency when air fails and (2) parking. This is accomplished with one lever assembly and linkage to brake cam shaft slack adjuster levers. The result — no more braking done through differential and drive shaft, no more costly repairs after an emergency stop.

The FAWICK (Neate) Hand Brake Control is ready for your use — to help improve the safety and economy of your vehicles. Contact FAWICK Brake Division for further information.

**FAWICK BRAKE DIVISION CORPORATION**

9921 CLINTON ROAD • CLEVELAND 9, OHIO

SILVER 25TH ANNIVERSARY

# FAMOUS AMERICAN WHEELS

The wheel of the clipper ship . . . symbol of American leadership in an early era of long distance transportation.

Today, America's most modern wheel—the Budd heavy-duty steel wheel—leads the way in the field of efficient, dependable, low cost hauling.

The Budd Company, Detroit 15

**NATIONWIDE SERVICE**

AKRON—Motor Rim Manufacturers Co.
ALBANY—Wheels, Incorporated
ALBUQUERQUE—Wheels & Brakes, Inc.
ATLANTA—John A. Harris & Son, Inc.
BALTIMORE—Standard Wheel & Rim Co.
BIRMINGHAM—Wheel, Rim & Parts Co.
BOSTON—New England Wheel & Rim Co.
BUFFALO—Frey, the Wheelman, Inc.
CHARLOTTE—Carolina Rim & Wheel Co.
CHICAGO—Stone Wheel, Inc.
CINCINNATI—Rim & Wheel Service, Inc.
CLEVELAND—Motor Rim Manufacturers Co.
CLIFTON—Wheels, Incorporated
COLUMBUS—Hayes Wheel & Spring Service
DALLAS—Southwest Wheel, Inc.
DAVENPORT—Stone Wheel & Rim Co.
DAYTON—Rim & Wheel Service, Inc.
DENVER—Quinn & McGill Motor Supply Co.
DES MOINES—Des Moines Wheel & Rim Co.
DETROIT—H. & H. Wheel Service, Inc.
EVANSVILLE—Auto Wheel & Rim Co., Inc.
FARGO—Wheel Service Company
FORT WAYNE—Wheel & Rim Sales Co.
GRAND RAPIDS—Rim & Wheel Service Co.
HARRISBURG—Standard Wheel & Rim Co.
HARTFORD—Connecticut Wheel & Rim Co.
HOUSTON—Southwest Wheel, Inc.
INDIANAPOLIS—Indiana Wheel & Rim Co.
JACKSONVILLE—Southeast Wheel & Rim Co.
KANSAS CITY—Borbein, Young & Co.
KNOXVILLE—John A. Harris & Son, Inc.
LANCASTER—Standard Wheel & Rim Co.
LOS ANGELES—Wheel Industries, Inc.
LOUISVILLE—Auto Wheel & Rim Service
LUBBOCK—Southwest Wheel, Inc.
MEMPHIS—Beller Wheel, Brake & Supply Co.
MILWAUKEE—Wisconsin Wheel & Rim Co.
MOLINE—Mutual Wheel Co.
NASHVILLE—Beller Wheel, Brake & Supply Co.
NEWARK—Automotive Safety Inc.
NEW HAVEN—Connecticut Wheel & Rim Co.
NEW ORLEANS—Southern Wheel & Rim Co.
NEW YORK—Wheels, Incorporated
OKLAHOMA CITY—Southwest Wheel, Inc.
OMAHA—Morgan Wheel & Equipment Co., Inc.
OMAHA—Omaha Rim & Wheel Co.
PEORIA—Peoria Wheel & Rim Co.
PHILADELPHIA—Kay Wheel Sales Co.
PHILADELPHIA—Thomas Wheel & Rim Co., Inc.

**Carter Reports:**

"We have specified Budd steel disc wheels for 25 years. Their built-in alignment has been a major factor in increasing tire life and reducing road failures."

*W. B. Rawlings, Jr.*
*Vice President and General Manager*
*Carter, Incorporated*
*Richmond, Virginia*

## CHECK THESE BUDD FEATURES

- **No wheel wobble**
- **Elimination of rim slippage**
- **Reduction of down-time**
- **Longer tire life**
- **Automatic alignment with "button down" ball-faced cap nuts**

**TUBELESS?** Budd makes a complete line of road-tested, economical tubeless wheels, always interchangeable with conventional equipment.

PITTSBURGH—Wheel & Rim Service
PORTLAND—Six Robbloes', Inc.
PROVIDENCE—New England Wheel & Rim Co.
RALEIGH—Carolina Rim & Wheel Co.
RICHMOND—Dixie Wheel Co., Inc.
ROCHESTER—Frey, the Wheelman, Inc.
SALT LAKE CITY—Henderson Rim & Wheel Service
SAN ANTONIO—Southwest Wheel, Inc.
SAN FRANCISCO—Wheel Industries, Inc.
SEATTLE—Six Robbloes', Inc.
SOUTH BEND—Wheel & Rim Sales Co.
SPOKANE—Bearing & Rim Supply Co.
SPRINGFIELD, ILL.—Illinois Wheel & Brake Co.
SPRINGFIELD, MO.—Borbein, Young & Co.
ST. LOUIS—Borbein, Young & Co.
ST. PAUL—Wheel Service Co.
SYRACUSE—Wheels, Incorporated
TACOMA—Six Robbloes', Inc.
TOLEDO—Wheel & Rim Sales Co.
WICHITA—Borbein, Young & Co.
WINSTON-SALEM—United-Automotive Service

**EXPORT**

CLEVELAND, OHIO—C. O. Brandes, Inc.
4900 Euclid Avenue

**CANADA**

CALGARY—Mutual Supplies, Ltd.
EDMONTON—Alberta Wheel Distributors, Ltd.
MONTREAL—Auto Wheels & Supplies, Ltd.
REGINA—Brakes & Wheels, Ltd.
TORONTO—Wheel & Rim Co. of Canada, Ltd.
VANCOUVER—Wheels & Equipment, Ltd.
WINNIPEG—Ft. Garry Tire & Auto Supplies, Ltd.

**Budd**

### ENGINES—continued

P & H Diesel Engine Div., Harnischfeger Corp., 500 S. Main St., Crystal Lake, Ill.
Waukesha Motor Co., W. St. Paul Ave., Waukesha, Wis.
White Diesel Engine Div., White Motor Co., 1401 Sheridan Ave., Springfield, Ohio.

### ENGINES, Gasoline, Small

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis. (Single cylinder, 4-cycle air-cooled.)
Clinton Engines Corp., Maple & Clark Sts., Maquoketa, Ia.
Continental Motors Corp., Muskegon 82, Mich.
Cushman Motor Works, Inc., 920 N. 21st St., Lincoln, Neb.
Fairbanks Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Jacobsen Mfg. Co., 747 Washington Ave., Racine, Wis.
Kermath Mfg. Co., 5890 Commonwealth Ave., Detroit 8, Mich.
Kohler Co., Kohler, Wis. (Air cooled.)
Lauson-Power Products Div., Tecumseh Products Co., New Holstein, Wis.
McCulloch Motors Corp., 6101 W. Century Blvd., Los Angeles 45, Calif.
Minneapolis-Moline Co., Box 1050, Minneapolis 40, Minn.
Mustang Motor Products Corp., 635 W. Colorado Blvd., Glendale 4, Calif.
Onan & Sons, Inc., D. W., University Ave., S. E. at 25th St., Minneapolis 14, Minn.
Power Products Corp., Grafton, Wis.
Reo Motors, Inc., 1331 So. Washington Ave., Lansing 20, Mich.
Sensation Mower, Inc., 7577 Burlington St., Ralston, Nebr.
Universal Motor Co., 487 Universal Drive, Oshkosh, Wis.
West Bend Aluminum Co., West Bend, Wis.
Wisconsin Motor Corp., 1910 S. 53rd St., Milwaukee 14, Wis.

### ENGINES, Gasoline, Truck and Bus

(Covering independent engine manufacturers)

Aircooled Motors, Inc., Liverpool Rd., Syracuse 8, N. Y.
Allis-Chalmers Mfg. Co., Buda Div., Milwaukee 1, Wis.
Brennan Motor Mfg. Co., 500 E. Water St., Syracuse, N. Y. (Truck.)
Continental Motors Corp., Muskegon 82, Mich.
Fageol Products Co., 789 Stow St., Kent, Ohio.
Ford Motor Co., P. O. Box 2053, Dearborn, Mich.
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E. Pontiac 11, Mich.
Hall-Scott Inc., 2850 Seventh St., Berkeley 10, Calif. (Truck, bus and fire truck.)
Hercules Motors Corp., 101 11th St., S. E. Canton 2, Ohio. (Truck, tractor and bus.)
International Harvester Co., Harvester Bldg., 180 N. Michigan Ave., Chicago 1, Ill. (Truck, tractor and bus.)
Le Roi Div. Westinghouse Air Brake Co., 1706 E. 68th St., Milwaukee 14, Wis.
Reo Div. White Motor Co., 1331 S. Washington Ave., Lansing 20, Mich.
Studebaker-Packard Corp., 635 S. Main St., South Bend 27, Ind.
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.
Waukesha Motor Co., E. St. Paul Ave., Waukesha, Wis. (Truck and bus.)
Willys Motors, Inc., Kaiser Motors Corp., 904 N. Cove Blvd., Toledo, Ohio. (Truck.)

### ENGINES, Industrial

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Caterpillar Tractor Co., Peoria 8, Ill.
Continental Motors Corp., Muskegon 82, Mich.
Cummins Engine Co., Fifth & Union Sts., Columbus, Ind.
Detroit Diesel Engine Div., General Motors Corp., 13400 W. Outer Dr., Detroit 28, Mich.
Ford Motor Co., American Rd., Dearborn, Mich.
Hercules Motors Corp., 101 Eleventh St. S.E., Canton 2, Ohio.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
LeRoi Div., Westinghouse Air Brake Co., Milwaukee 1, Wis.
The Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
P&H Diesel Engine Div., Harnischfeger Corp., 500 S. Main St., Crystal Lake, Ill.
Waukesha Motor Co., W. St. Paul Ave., Waukesha, Wis.

**EXCHANGERS, HEAT, See Coolers, Oil Temperature**

**EXHAUST GAS INDICATOR, See Indicators, Carbon Monoxide**

### EXHAUST GAS REMOVING SYSTEMS

Car-Mon Products Co., 1541 Devon St., Chicago 26, Ill.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Engwald Corp., 357 Lafayette Ave., Brooklyn 38, N. Y.
Harvey Industries, 3776 W. 152nd St., Cleveland, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Metalwash Machinery Corp., 901 North Ave., Elizabeth 4, N. J.
Moffatt Prods. Inc., 4824 Triton Dr., Minneapolis 22, Minn.
National System of Garage Ventilation, Inc., 138 W. William St., Decatur, Ill.

**EXHAUST PIPES, See Pipes, Tail and Exhaust**

### EXHAUST PROTECTOR

(For Vertical Stack)

Canton Manufacturing Co., 2408 13th St., N. E., Canton, Ohio.

### EXPANDERS, Bead, Tubeless Tire

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Big Boy Products, Div. of Dalton Foundries Inc., Lincoln & Jefferson Sts., Warsaw, Ind.
Big Four Industries Inc., 5938 Carthage Court, Cincinnati, Ohio.
Bishman Mfg. Co., Osseo 26, Minn.
Cleveland Graphite Bronze Div. of Clevite Corp., 17000 St. Clair Ave., Cleveland 10, Ohio. (Sole distributor to replacement trade Clevite Service, 6545 Carnegie Ave., Cleveland 3, Ohio.)
Dixie Tallyho Inc., Fairburn, Ga.
Egan Mfg. Co., H. B., 425 W. Main St., Muskogee, Okla.
Hopkins Mfg. Corp., 428 Peyton Ave., Emporia, Kans.
Ken-Tool Mfg. Co., 768 E. North St., Akron 6, Ohio.
May Bros. Mfg. Co., 1211 W. Washtenaw St., Lansing, Mich. (Air operated.)
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Salsbury Corp., 1161 E. Florence Ave., Los Angeles, Calif. (Air operated.)

### EXPANDERS, Piston Ring

Burd Piston Ring Co., Box 567, Eau Claire, Wis. (Expanding.)
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Smalley Accessories Corp., 224 W. Huron St., Chicago 10, Ill.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.

### EXPANDERS, Piston Skirt Inserts

Haling Co., 1061 First Ave., Rochester, Minn.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.
Roberts Mfg. Co., 118 Monroe St., St. Charles, Mo.
Thexton Mfg. Co., 7600 Highway 7, Minneapolis 16, Minn.
Wel-Ever Piston Ring Co., Speilbusch Ave. nr. Jackson St., Toledo 1, Ohio.
Wherry Engineering Co., 3229 Morganford Rd., St. Louis 16, Mo.

### EXPANDERS, Piston Skirt

Haling Co., 1061 First Ave., Rochester, Minn.
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.
Roberts Mfg. Co., 118 Monroe St., St. Charles, Mo.
Thexton Mfg. Co., 7600 Highway 7, Minneapolis, Minn.
Wherry Engineering Co., 3229 Morganford Rd., St. Louis 16, Mo.

### EXTINGUISHERS, Fire, Portable

Allen Mfg. Co., 566 W. Lake St., Chicago, Ill.
American-LaFrance Corp., 100 E. LaFrance St., Elmira, N. Y.
Ansul Chemical Co., Fire Extinguisher Div., Marinette, Wis. (Dry chemical.)
Anthes Force Oiler Co., Ft. Madison, Iowa.
Astoria Mfg. Co., 42-02 Vernon Blvd., Long Island City 1, N. Y.
Beacon Devices, Inc., 74 Olive St., North Tonawanda, N. Y. (Portable units, inflates tires or extinguishes fires.)
Bostwick Laboratories, Inc., Aersol Div. of B. T. Babbitt Inc., 625 Madison Ave., New York 22, N. Y.
Buffalo Fire Appliance Corp., 221 Crane St., Dayton 1, Ohio.
Diener Mfg. Co., Geo. W., 400 Monticello Ave., Chicago 24, Ill.
Dietz Co., R. E., 225 Wilkinson St., Syracuse, N. Y.
Elkhart Brass Mfg. Co., 1302 W. Beardsley Ave., Elkhart, Ind.
Fire-Killer Mfg. Co., 107 N. Franklin St., Syracuse 1, N. Y.
Fyr-Fyter Co., 221 Crane St., Dayton, Ohio.
General Fire Extinguisher Corp., 6801 Rising Sun Ave., Philadelphia 11, Pa.
General Pacific Corp., 8740 Washington Blvd., Culver City, Calif.
Heet Div. of Demert & Dougherty Inc., 3001 W. 47th St., Chicago 32, Ill.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kent Extinguisher Co., 830 Front St., N. W., Grand Rapids, Mich.
Kidde & Co., Inc., Walter, 675 Main St., Belleville 9, N. J.
Lenk Mfg. Co., Franklin, Ky.
Merlite Industries, Inc., 114 E. 32nd St., New York 17, N. Y.
Plasti-Kote, Inc., 9801 Harvard Rd., N.W., Cleveland 5, Ohio.
Power-Pak Products, Inc., 43 Pearl St., Buffalo 2, N. Y. (Combination tire inflector and fire extinguisher.)
Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill.
Red Comet, Inc., Red Comet Bldg., Littleton, Colo.
Safety Fire Extinguisher Co., 295 7th Ave., New York 1, N. Y.
Safety First Prods. Corp., 175 Saw Mill River Rd., Elmsford, N. Y. (Pressurized.)
Seco Engrg. & Mfg., Inc., 1300 W. Fort St., Detroit 26, Mich.
Snyder & Son, M. L., Inc., 1827 E. York St., Philadelphia 25, Pa.
Stop-Fire, Inc., P. O. Box 9, Monmouth Junction, N. J.
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

### EXTRACTORS, Bolt and Screw

Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y. (Stud.)
C. & G. Wheel Puller Co., Scio, N. Y. (Stud.)
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich. (Screw.)
Chicago-Latrobe, 426 W. Ontario St., Chicago 10, Ill. (Screw.)
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Greenfield Tap & Die Div. United-Greenfield Corp., Sanderson St., Greenfield, Mass.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Keystone Reamer & Tool Co., Millersburg, Pa.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. (Screw.)
Miller Co., L. B., 336 W. Main St., Stamford, Conn. (Stud.)
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. (Stud.)
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.
Owatonna Tool Co., 542 N. Cedar St., Owatonna, Minn.
P & C Tool Co., Box 5926, Milwaukee, Wis.
Proto Tools, 2209 Santa Fe Ave., Los Angeles, Calif.
Quality Tools Corp., Railroad St., New Wilmington, Pa.
Reps Tool Co., Box 5, Elmwood Branch, Hartford 10, Conn (Also stud.)

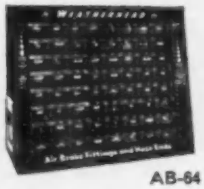
# These are Life Lines, Mister

## AIR BRAKE HOSE AND FITTINGS HAVE GOT TO BE RIGHT!

Every trucker knows you can't take air brake hose and fittings for granted. Too much depends on their dependable performance.

That's why so many fleet service shops are specifying Weatherhead's line of air brake parts. Every hose is tested to almost double the maximum working pressure. Every hose end and fitting is machined to rigid standards. You can count on safe, reliable performance when you specify Weatherhead air brake fittings, hose and hose ends. Contact your nearby Weatherhead supplier for "right now" service!

**Free cabinets with suggested parts assortment now available from a full line of air brake fittings, hose and hose ends.**



AB-64

AB-20

Find out how you can get handy air brake component storage bins free. AB-64 for large fleets, AB-20 for smaller service shops.

**THE WEATHERHEAD COMPANY**
Department CCJ-11
128 West Washington Blvd., Fort Wayne, Ind.

# WEATHERHEAD

**World's largest manufacturer of tube fittings**

### EXTRACTORS—continued

Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Roddick Tool Co., 1023 Pauline St., Anaheim, Calif. (Screw.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Spray Products Corp., 725 Kenilworth Ave., Merchantville 10, N. J.
Titan Tool Co., E. Main St., Fairview, Pa. (Combination stud driver and remover.)
Vermont Tap & Die Corp., Main & Grove Sts., Lyndonville, Vt. (Screw.)
Walton Co., Box 5, Elmwood Branch, Hartford 10, Conn. (Stud and screw.)
Whitman & Barnes Div. of United Drill & Tool Corp., 40085 Plymouth Rd., Plymouth, Mich. (Screw.)
Wilde Drop Forge & Tool Co., 2938 Fairmount Ave., Kansas City, Mo. (Stud.)
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. (Stud.)
Wilson, Inc., K. R., 215 Main St., Arcade, N. Y.
Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill. (Stud.)

### EXTRACTORS, Bushing

Accurate Re-Nu Clutch Div. of Mar Pro Inc., 168 N. Michigan Ave., Chicago 1, Ill.
Accurate Products Inc., 135 N. Spring St., Indianapolis, Ind.
Atmars Tool Co., 3561 Lakeshore Ave., Oakland 10, Calif.
Beard Tool Co., L. O., Andrew & Mill Sts., Mass. (For seat covers and upholstery.)
Cornwall Quality Tools Co., Mogadore, Ohio.
Crozier Machine Tool Co., 684 N. Prairie Ave., Hawthorne, Calif.
Dixie-Jibo Co., 2004 Mullenphy St., St. Louis 6, Mo.
Greb Co., 181 Canton St., Stoughton, Mass.
Ideal Mfg. Co., 2649 N. Kildare St., Chicago, Ill.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Owantonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Ulmo Tool Co., 2515 Superior St., Cleveland, Ohio.
Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill. (Horn.)

### FABRICS, Coated Cloth, For Curtains, Seat Covers, Tops and Upholstery

Athol Mfg. Co., 71 Chestnut Hill Ave., Athol, Mass. (For seat covers and upholstery.)
Blosom Mfg. Co., 2337 McDonald Ave., Brooklyn, N. Y. (For curtains.)
Brockton Stay Co., 24 Essex St., Haverhill, Mass.
Burlington Mills, Inc., Burlington, Wis. (Plastic coated, for kick plates, dash seals, floor covering, head lining.)
Columbus Coated Fabrics Corp., 7th & Grant Aves., Columbus 16, Ohio. (For upholstery and trim.)
Consolidated Admiral Co., 218 W. 65th St., New York, N. Y. (Plastic Coated.)
Duncan Co., W. H., 319 Broadway, New York 7, N. Y.
du Pont de Nemours & Co., E. I., Fabrics Div., Fairfield, Conn. (Rubberized Vinyl plastic coated for upholstery or trim.)
Federal Leather Co., 681 Main St., Belleville 9, N. J. (Vinyl, pyroxylin and plastic coated.)
Goodall-Sanford, Inc., Reading Div., Reading, Mass. (Upholstery; sole distributor, Goodall Vinyl Fabrics, Inc., 1430 Broadway, New York 18, N. Y.)
Goodrich Industrial Prods. Co., B. F., 500 S. Main St., Akron 18, Ohio.
Haartz Auto Fabric Co., 3 Bridge St., Newton 58, Mass. (For tops and decking.)
Haarts-Mason, Inc., Mechanical Products Div., 270 Pleasant St., Watertown 72, Mass. (For truck tarpaulins, engine covers, etc.)
Hettrick Mfg. Co., Summit & Magnolia Sts., Toledo, Ohio.
Hoosier Tarpaulin & Canvas Goods Co., Inc., 1302 W. Washington St., Indianapolis, Ind. (Canvas, flame resistant, mildew resistant, water repellent; Nylon, Paper, Plastic.)
Interchemical Corp., Cotan Div., 341 Oliver St., Newark 5, N. J.
Jamestown Finishes, Inc., 125 Blackstone Ave., Jamestown, N. Y. (For interior trim.)
Joanna-Western Mills Co., 22nd & Jefferson Sts., Chicago, Ill. (Plastic coated for upholstery trim and seat cover.)
Landers Corp., Buckingham & Blucher Sts., Toledo 1, Ohio. (Upholstery and seat covering.)
Masland Duraleather Co., Amber & Willard Sts., Philadelphia 34, Pa. (Plastic coated.)
Niagara Fabric Mfg. Co., 161 Grand St., New York 13, N. Y.
Pantasote Co., 415 Madison Ave., New York 22, N. Y. (Upholstery.)
Reeves Bros. Inc., 1071 Sixth Ave., N. Y., N. Y. (Tarpaulins, etc.)
St. Clair Rubber Co., 440 Jefferson Ave., E. Detroit 26, Mich.
Textileather Div. of General Tire & Rubber Co., 607 Madison Ave., Toledo 3, Ohio. (Pyroxylin coated for upholstery and trim.)
United States Plywood Corp., Weldwood Bldg., 55 W. 44th St., N. Y. 36, N. Y.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Weymouth Art Leather Co., 180 Pearl St., S. Braintree 85, Mass.

### FABRICS, Uniform

Reeves Brothers, Inc., 54 Worth St., New York 13, N. Y.
Metcalf Bros. & Co., Inc., 45 E. 17th St., N. Y., N. Y.

### FACINGS, Clutch, Asbestos

American Brakeblok Div., American Brake Shoe Co., Maple Rd. East of Crooks Rd., Detroit, Mich.
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
Atlas Asbestos Co., 469 Walnut St., North Wales, Pa.
Gatke Corp., 228 N. LaSalle St., Chicago 1, Ill.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Johns-Manville, 22 E. 40th St., New York 16, N. Y.
National Brake Block Co., 37-17 57th St., Woodside 77, N. Y.
Raybestos Div. of Raybestos-Manhattan, Inc. Bridgeport, Conn.
Raybestos-Manhattan, Inc., Equipment Sales Div., Bridgeport, Conn.
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.
Russell Mfg. Co., E. Main St., Middletown, Conn.
Scandinavia Belting Co., 744 Broad St., Newark 1, N. J.
Thermoid Co., Whitehead St., Trenton 6, N. J.

### FACINGS, Clutch, Cork

Armstrong Cork Co., Industrial Div., Lancaster, Pa. (Rubber and fibre.)

### FACINGS, Clutch, Metallic

Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc. 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equipment Sales Div., 75 E. Main St., Stratford, Conn.
Wellman Co., S. K., 200 Egbert Rd., Bedford, Ohio.

**FAN BELTS, See Belts, Fan**

### FANS, Defrosting and Ventilating

Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn.
Chemex Corp., 41 Murray St., New York 7, N. Y.
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. (For trucks and buses.)
Diehl Mfg. Co., Finderme Plant, 1011 Finderme Ave., Somerville, N. J. (Ventilating for buses and trucks.)
Evans Products Co., 13101 Eckler's Rd., Plymouth, Mich.
Ha Dees Heater Div. of Gabriel Co., 1911 Harrison Ave., Rockford, Ill.
Lydon-Bricher Mfg. Co., 2500 University Ave., St. Paul 4, Minn. (For buses and trucks.)
Roto-Beam, 1755 N. Keeler St., Chicago 39, Ill.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.

### FANS, Exhaust Drying

American Blower Corp., Detroit 32, Mich.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Buffalo Forge Co., 490 Broadway, Buffalo 4, N. Y.
Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa.
Clarage Fan Co., North & Porter Sts., Kalamazoo, Mich.
DeVilbiss Co., 300 Phillips Ave., Toledo 1, O.
Emerson Electric Mfg. Co., 8100 Florissant Ave., Detroit 21, Mich.
Ilg Electric Ventilating Co., 2850 Pulaski Rd., Chicago 41, Ill.
Joy Mfg. Co., 333 Oliver Bldg., Pittsburgh 22, Pa.
Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio.
M & E Mfg. Co., 2571 Winthrop Ave., Indianapolis 5, Ind.
Spray Engineering Co., 100 Cambridge St., Burlington, Mass.
Standard Electric Mfg. Co., Haddon Ave., West Berlin, N. J.
Westinghouse Electric Corp., Sturtevant Div., 15 Damon St., Hyde Park, Boston 36, Mass.

### FANS, Radiator

Eaton Mfg. Co., 739 E. 40th St., Cleveland 10, Ohio.
Hayes Industries, Inc., Wildwood & Fern Aves., Jackson, Mich.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis.
Schwitzer Corp., 1125 Massachusetts Ave., Indianapolis 7, Ind. (Thermostatically controlled.)
Service Products Corp., 201 S. Rural St., Indianapolis 1, Ind.

### FASTENERS, Sheet Metal

Carr Fastener Co., 31 Ames St., Cambridge, Mass.
Champ Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
Dzus Fastener Corp., P. O. Box 185, Babylon, L. I., N. Y.
General Tire & Rubber Co., Industrial Products Div., Vibrex Dept., Wabash, Ind.
Lamson & Sessions Co., 5000 Tiedeman Rd., Cleveland, Ohio.
Monadnock Mills, 1977 First Ave., San Leandro, Calif.
Palnut Co., 54 Glen Rd., Mountainside, N. J.
Prestole Corp., 1351 Miami St., Toledo 5, Ohio.
Rosan Inc., 2901 W. Coast Highway, Newport Beach, Calif.
Simmons Fastener Corp., 1749 N. Broadway, Albany, N. Y.
South Chester Corp., Southco Div., 228 Industrial Highway, Lester, Pa.
Star Expansion Industries Corp., Mountainville, N. Y.
Tinnerman Products, Inc., 8700 Brookpark Rd., Cleveland, Ohio.
United-Carr Fastener Corp., 31 Ames St., Cambridge 42, Mass.

**FELT, INSULATING, See Insulation, Felt, Hair, Paper, etc.**

### FENDERS

Anderson Co., O. L., 1347 E. Fort St., Detroit 7, Mich.
Ansted Corp., 1428 W. Henry St., Indianapolis 7, Ind.
Bath Co., Cyril, 32280 Aurora Rd., Solon, Ohio.
Binkley Mfg. Co., Warrenton, Mo.
Budd Mfg. Co., Edw. G., Hunting Park Ave. & 25th St., Philadelphia, Pa.
Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y. (Truck to order.)
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill.
Cook Metal Wks., Inc., 237 S. Campbell Ave., Mishawaka, Ind.
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
Hart Metal Products Corp., 3333 Hammond Ave., Elkhart, Ind.
Kirk & Blum Mfg. Co., 3120 Farrer St., Cincinnati 9, Ohio. (Bus.)
Rex Metal Parts Co., 1295 W. 78th St., Cleveland 2, Ohio. (Bus, truck and fire engines.)
Saginaw Sheet Metal Parts Corp., 2064 E. Genesee Ave., Saginaw, Mich. (Truck and utility trailer.)
Stolper Steel Products Corp., 300 Pilgrim Rd., Menomonee Falls, Wis.

6-Cyl. P&H Automotive Diesel
Model 687C-18A
Rating: 280 hp @ 1800 rpm
Weight of Engine Dry—1800 lbs.
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(Heavy Duty Trucks)
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## Over $14,000 annual savings with Gulflex Moly Grease . . .

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"We can measure yearly savings of at least $14,256 since we've been doing all our chassis lubrication with Gulflex Moly Grease," says Robert Hinson, president of Penn Yan Express, Inc., Penn Yan, N. Y.

Penn Yan Express operates in four states, with 58 tractors and 88 trailers, hauling payloads that average about 60,000 lbs. The cost of chassis maintenance on these units has been cut in half since Penn Yan has been lubricating with new Gulflex Moly Grease.

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"But we also save through the convenience of being able to handle chassis lubrication and oil changes at the same time, every 5,000 miles, rather than pull a tractor in at 2,500 and again at 5,000 miles. In 100,000 miles, a Penn Yan tractor is out of service for lubrication only 20 times instead of 40."

**Why does Gulflex Moly lubricate so well so long?** This new grease contains molybdenum disulfide—a remarkable anti-friction agent. Gulflex Moly withstands high pressures, has great resistance to water, acids and alkalis. It's an ideal grease for complete chassis lubrica-

**Success story.** Bob Hinson, right, started as a truck driver. Now 35, he heads a firm that hauls over 3 million miles a year. Here, he tells Chester Baker, Gulf Sales Representative, about Penn Yan Express' savings with Gulflex Moly Grease.

**A million gallons a year of Good Gulf Gasoline** powers the Penn Yan fleet. When engine heads are pulled for inspection at 150,000 miles, Penn Yan finds all engines clean . . . proof that Good Gulf Gasoline burns clean, fights harmful engine deposits.

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tion—fifth wheels, fittings, pumps, king pins, shackle bolts and torsion suspension bearings.

**Gulf makes things run better** for Penn Yan Express in more ways than one. Clean-burning Good Gulf Gasoline has powered their tractors over 25 million miles. And, with all engines lubricated by Gulflube H.D. Motor Oil, the original engine bearings are still being used in Penn Yan tractors which have logged 750,000 miles, and in some up to a million miles.

Your fleet can save money, too, with new Gulflex Moly Grease. Call at your nearest Gulf office, or mail the coupon for new illustrated bulletin.

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**FENDERS—continued**

York Corrugating Co., Adams St. & W. Md. R. R., York, Pa. (Truck and trailer.)
Youngstown Kitchens, Div. of American-Standard, 605 S. Ellsworth St., Salem, Ohio.

**FIFTH WHEEL, See Wheels, Fifth**

**FILES, Contact Point**

Badger Mfg. Corp., 1501 W. Polk St., Chicago, Ill.
Heller Tool Co., Heller Dr., Newcomerstown, Ohio.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Miller Co., L. B., 336 W. Main St., Stamford, Conn.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.
Nolvex File Co., 10329 Detroit Ave., Cleveland 2, Ohio.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Rinck-McIlwaine Inc., 16 Hudson St., New York 13, N. Y.
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Tacony File & Hardware Co., 7225 Wissinoming St., Philadelphia 35, Pa.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

**FILLER, Body Repair, See Compounds, Body Repair**

**FILTERS, AIR, See Cleaners, Air**

**FILTERS, Coolant**

American Octanator Corp., 549 Reservoir St., Cranston, R. I.
Fram Corp., Providence 16, R. I.
Perry Filter Div., R. M. Hollingshead Corp., 840 Cooper St., Camden 2, N. J.

**FILTERS, Diesel Fuel**

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Air-Maze Corp., 25000 Miles Rd., Cleveland 28, Ohio.
American Bosch Div. American Bosch Arms Corp., 3664 Main St., Springfield 7, Mass.
Bendix-Skinner Div., Bendix Aviation Corp., 434 W. 12 Mile Rd., Royal Oak, Mich.
Briggs Filtration Co., Automotive Div., River Road, Washington 16, D. C.
Commercial Filters Corp., 2 Main St., Melrose 76, Mass.
Cuno Engrg. Corp., 80 S. Vine St., Meriden, Conn.
DeLuxe Products Corp, 1200 Michigan Blvd., Racine, Wis.
Fram Corp., Providence 16, R. I.
Hartford Mechine Screw Co., Hartford 2, Conn.
Hilliard Corp., 113 W. Fourth St., Elmira, N. Y.
Indiana Commercial Filters Corp., 415 Indianapolis Ave., Lebanon, Ind.
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif.
Permanent Filter Corp., 1800 W. Washington Blvd., Los Angeles 7, Calif.
Purolator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.
Truck Accessories Co., 2512 W. Olympic Blvd., Los Angeles 6, Calif.
W. G. B. Oil Clarifier, Inc., 139 Cornell St., Kingston, N. Y.
Winslow Engrg. and Mfg. Co., 4069 Hollis St., Oakland 8, Calif.
Wix Corp., 1211 Ozark St., Gastonia, N. C.

**FILTERS, Gasoline**

AC, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.
Autopulse Corp., 218 E. Dowland St., Ludington, Mich.
Bendix-Skinner Div., Bendix Aviation Corp., 434 W. 12 Mile Rd., Royal Oak, Mich.
Carter Carburetor Div. of A C F Industries, Inc., 2840 N. Spring Ave., St. Louis 7, Mo.
Century Gas Equipment, Marvel-Schebler Products Div., Borg-Warner Corp., 625 Southside Drive, Decatur, Ohio.
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
Chilton Metal Products Inc., 300 Breed St., Chilton, Wis.
Cuno Engrg. Corp., 80 S. Vine St., Meriden, Conn.
Electric Autopulse Div., Walbro Corp., Cass City, Mich.
Engine Accessories Mfg. Co., 5801 E. Beverly Blvd., Los Angeles 22, Calif.
Ensign Carburetor Co., 1551 E. Orangethrop Ave., Fullerton, Calif. (LP Gas.)
Fram Corp., Providence 16, R. I.
Hygrade Products, Div. Standard Motor Products, Inc., 27-18 Northern Blvd., Long Island City 1, N. Y.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill.
J & S Carburetor Co., 2634 N. Beckley Ave., Dallas 2, Texas. (LP Gas.)
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Klemm Automotive Products Co., 1718 N. Damen Ave., Chicago 47, Ill.
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio.
Permanent Filter Corp., 1800 W. Washington Blvd., Los Angeles 7, Calif.
Purolator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.
Sparkler Mfg. Co., Lake St., Mundelein, Ill.
Tillotson Mfg. Co., 761 Berdan St., Toledo 12, Ohio.
United Motor Service, General Motors Bldg., Detroit 2, Mich.
Wix Corp., 1211 Ozark St., Gastonia, N. C.
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich.

**FILTERS, Oil**

AC, The Electronics Div. of General Motors, 1300 N. Dort Highway, Fline 2, Mich.
Baldwin Mfg. Co., J. A., P. O. Box 656, Kearney, Nebr.
Bendix-Skinner Div., Bendix Aviation Corp., 434 W. 12 Mile Rd., Royal Oak, Mich.
Bolser Corp., S. Main St., Cedar Falls, Iowa.
Briggs Filtration Co., Automotive Div., River Road, Washington 16, D. C.
Champion Laboratories Inc., Box 189, West Salem, Ill.
Commercial Filters Corp., 2 Main St., Melrose 76, Mass.
Continental Mfg. Corp., 10411 W. Washington Blvd., Culver City, Calif.
Cuno Engrg. Corp., 80 S. Vine St., Meriden, Conn.
Danielson Mfg. Co., Danielson, Conn.
De Luxe Products Corp., 1200 Michigan Blvd., Racine, Wis.
Engine Accessories Mfg. Co., 5801 E. Beverly Blvd., Los Angeles 22, Calif.
Fram Corp., Providence 16, R. I.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Hilliard Corp., 113 W. 4th St., Elmira, N. Y.
Hutchens Industries, Inc., 1206 Western Ave., Eau Claire, Wis.
Indiana Commercial Filters Corp., 415 Indianapolis Ave., Lebanon, Ind.
International Refinol Co., 6513 W. Pershing Rd., Berwyn, Ill.
Lee Filter Corp., 41 River Rd., North Arlington, N. J.
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif.
Nugent & Co., Wm. W., 3440 Cleveland St., Skokie, Ill.
Oilpure Refiner Sales Co. (Oil Refiner), 507 Fifth Ave., New York, N. Y.
Permanent Filter Corp., 1800 W. Washington Blvd., Los Angeles 7, Calif.
Pick Mfg. Co., West Bend, Wis.
Purolator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.
Truck Accessories Co., 2512 W. Olympic Blvd., Los Angeles 6, Calif.
W. G. B. Oil Clarifier, Inc., 139 Cornell St., Kingston, N. Y.
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.
Winslow Engrg. & Mfg. Co., 4069 Hollis St., Oakland 8, Calif.
Wix Corp., 1211 Ozark St., Gastonia, N. C.

**FILTERS, Oil Refills**

AC, The Electronics Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Bolser Corp., S. Main St., Cedar Falls, Iowa.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Briggs Filtration Co., Automotive Div., River Rd., Washington 16, D. C.
Buffalo Pressed Steel Co., 460 N. Meridian St., Youngstown 9, Ohio.
Campbell Filter & Mfg. Co., Rumford, R. I.
Champion Laboratories, Inc., 122 Charles St., Meriden, Conn.
Cyclone Filter Corp., 4401 W. North Ave., Chicago 39, Ill.
De Luxe Products Corp., 1200 Michigan Blvd., Racine, Wis.
Filtors, Inc., 30 Sagamore Hill Dr., Port Washington, L. I., N. Y. (Sole distributors, Bowman Products Co., Cleveland 8, Ohio.)
Fram Corp., Providence 16, R. I.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Hutchens Industries, Inc., 1206 Hastings Way, Eau Claire, Wis.
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif.
Mac Kensie Muffler Co., 460 N. Meridian Rd., Youngstown 9, Ohio.
Pick Mfg. Co., West Bend, Wis.
Purolator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.
Refill Filter Co., 541-15 Ave., Newark 3, N. J.
W B G Oil Clarified Co., 139 Cornell St., Kingston, N. Y.
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
Winslow Engineering Co., 4069 Hollis St., Oakland 8, Cal.
Wix Corp., 1211 Ozark, Gastonia, N. C.

**FILTERS, Oil, Transmission**

Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo, Mich.

**FIRE ENGINES, See Trucks, Fire**

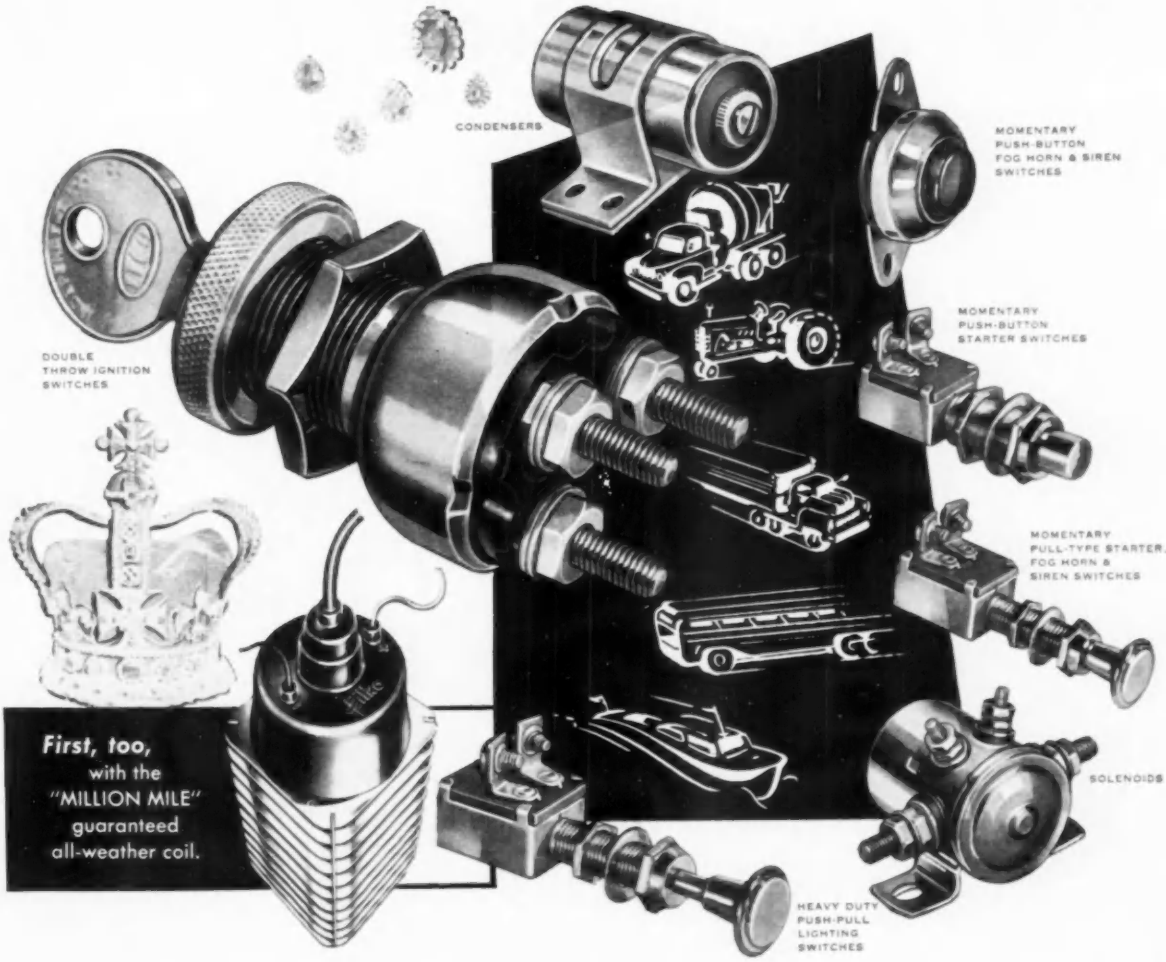
**FIRE EXTINGUISHERS, See Extinguishers, Fire**

**FITTINGS, TUBE, See Tube Fittings**

**FLAPS, FENDER, See Guards, Splash**

**FLARES, Highway Lighting**

Advanced Mfg., Inc., 738 W. 17th St., Costa Mesa, Calif. (Electric.)
American Automatic Devices Co., Throop St., Chicago 7, Ill. (Oil burning.)
Anthes Force Oiler Co., Ft. Madison, Iowa. (Oil burning and electric; also fuses.)
Arrow Safety Device Co., Mt. Holly, N. J. (Oil burning; also fusees.)
Bolser Corp., S. Main St., Cedar Falls, Iowa. (Oil burning; also fusees.)
Busch & Co., A. G., 6138 Northwest Hwy., Chicago 31, Ill. (Plugs into cigar lighter.)
Carpenter Mfg. Co., Sidney & Erie Sts., Cambridge, Mass. (Electric and electric flasher type.)
Delbar Products, Inc., 7th & Spruce Sts., Perkasie, Pa.
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (Oil burning, also fusee type.)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. (Electric and kerosene.)
Emarco Corp., Far Hills Station, Dayton 9, Ohio.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Electric flashing for disability parking.)
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky. (Oil burning.)
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio. (Oil burning and electric; also fusees.)
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
Kilgore, Inc., Westerville 2, Ohio.
Pacific Mercury Mfg. Corp., Mech. Equip. Div., 14052 Burbank Blvd., Van Nuys, Calif.
Portable Light Co., 216 William St., New York 38, N. Y.
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.
Signal-Stat Corp., 523-539 Kent Ave., Brooklyn 11, N. Y.
Standard Railway Fusee Corp., Signal Flare Div., Box 30-C, Needham Heights 94, Mass. (Fusees.)
Toledo Pressed Steel Co., 397 Phillips Ave., Toledo, Ohio. (Oil burning; also fusees.)
Turnsignal Co., 2720 W. Susquehanna Ave., Philadelphia 21, Pa. (Electric.)

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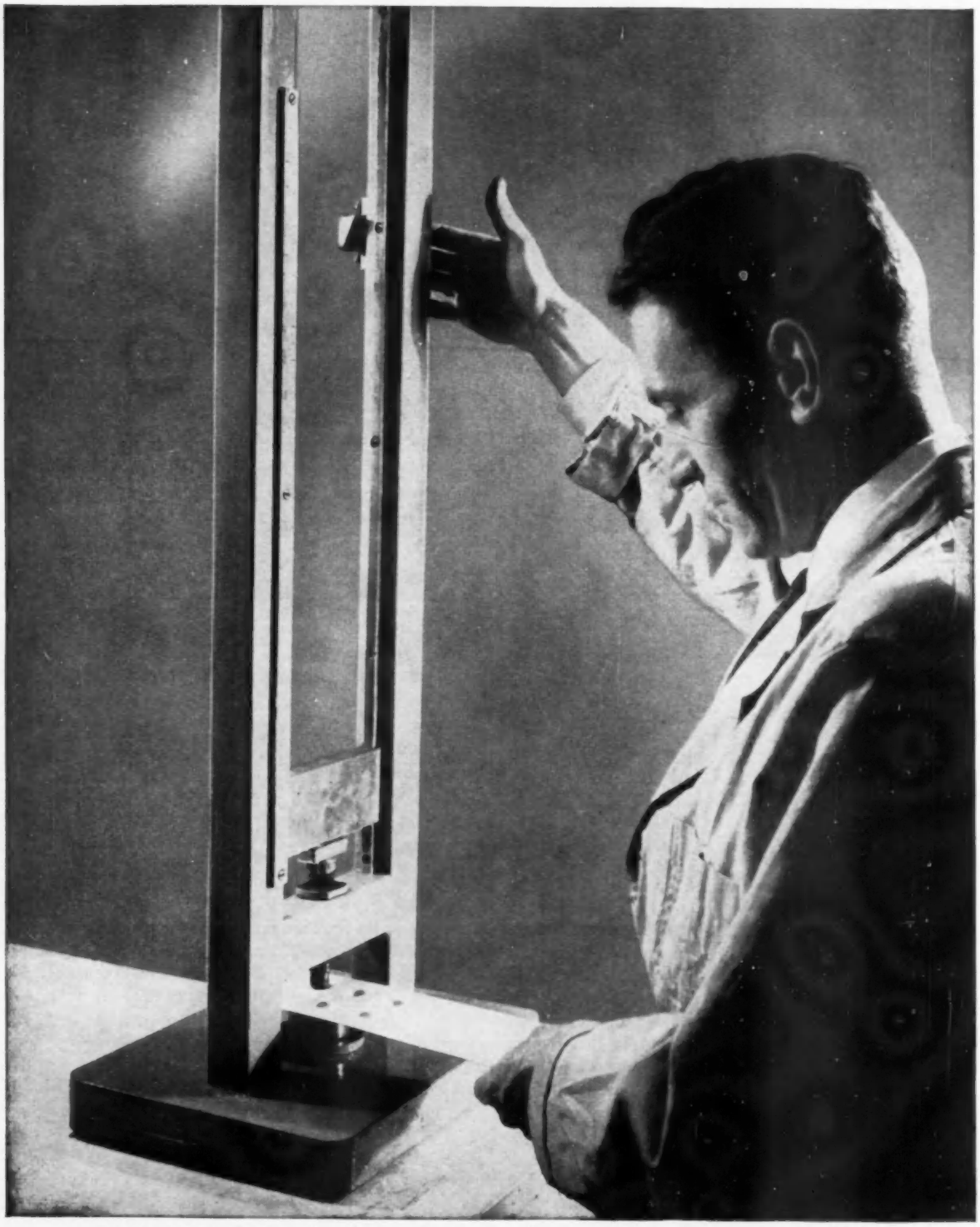
# Takes a beating without chipping...



**"PAINT PILE DRIVER."** As a Du Pont chemist trips the trigger, a weighted hammer comes crashing down on a panel painted with "Dulux" Enamel. The metal is repeatedly dented, but "Dulux" does not chip. That's why "Dulux" stands up so well under slam-bang loading and flying gravel on leading fleets.

# no wonder Du Pont DULUX Enamel is specified for leading fleets

To build a reputation for durability on trucks and buses, a finish must graduate at the head of its class from the school of hard knocks. And look at the hard knocks "Dulux" Enamel takes for a final exam! When that "paint pile driver" in the photo at left pounds dent after dent into the panel without chipping the "Dulux" Enamel finish, the lab knows its ready for anything on the road.

**OTHER PUNISHING TESTS** insure excellent "Dulux" resistance to fog, dew, rain, salt air, ice, blazing sunshine and constant vibration. As a result, "Dulux" has become the *standard* of durability in the toughest commercial service—on delivery and transport trucks as well as on local and long-distance buses.

**REAL ECONOMY**—When you put Du Pont "Dulux" on your fleet, you take advantage of the continuing experience of the world's greatest paint laboratory. You get tested performance for easy working *in* the paint shop . . . long, trouble-free life *out* of the paint shop. That's economy in the truest sense of the word.

And when you see how "Dulux" Enamel snaps back, rich and lustrous, at every washdown, you'll know you picked a winner to carry your company colors. For lasting good appearance that earns lasting good will, specify Du Pont "Dulux" Enamel.

**IT PAYS TO USE THE COMPLETE "DULUX" SYSTEM**

NEW PREP-SOL + NEW PREPAR-AKOTE + DULUX REDUCER + DULUX COLOR

## Du Pont "Dulux" Enamel

DU PONT

REG. U.S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING . . . *THROUGH CHEMISTRY*

**CARNATION MILK TRUCKS** say "dairy-fresh" at a glance, with their super-tough finish of "Dulux" Enamel. Carnation has used "Dulux" for over 15 years, finds it pays off in more road time, less day-to-day maintenance cost.

**GREEN BUS LINES, INC.,** in New York, reports, "'Dulux' has proven to be the most economical finish because of its toughness, durability and color retention." They also note that it reduces costs and time in the paint shop.

**GRIESEDIECK BEER TRUCKS** do a good job of advertising traditionally fine GB quality, with "Dulux" Enamel keeping the big "rolling billboards" bright through 10-state deliveries in temperature extremes, industrial fumes and traffic.

**FLARES—continued**

U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill. (Electric flashing.)
Vari-Products Co., 2450 S. Prairie Ave., Chicago 16, Ill.
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Oil burning.)

**FLARING TOOLS, See Tools, Tube Flaring**

**FLASHERS, Directional Signal**

Advanced Mfg. Co., 738 W. 17th St., Costa Mesa, Calif.
Arrow Safety Device Co., Mt. Holly, N. J.
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 9, Ill.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
Macchi & Co., 818 Valencia St., San Francisco 10, Calif.
Signal-Stat Corp., Signal-Stat Bldg., 523-539 Kent Ave., Brooklyn 11, N. Y.
Sparton Automotive Div. of Sparton Corp., Jackson, Mich.
Tung-Sol Electric, Inc., 95 8th Ave., Newark 4, N. J.

**FLEET RECORDS, See Forms**

**FLEXIBLE SHAFTING, See Shafting, Flexible**

**FLOOR COVERINGS, See Covering, Floor**

**FLOOR RESURFACERS, See Resurfacers, Floor**

**FLOORING, Truck and Trailer**

Alan Wood Steel Co., Conshohocken, Pa.
Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa. (Aluminum.)
American Abrasive Metals Co., 460 Coit St., Irvington 11, N. J.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn. (Aluminum.)
Consolidated Water Power & Paper Co., Abdawagam Div., P. O. Box 50, Wisconsin Rapids, Wis. (Plastic.)
Eastern Stainless Steel Corp., P. O. Box 1975, Baltimore 3, Md. (Stainless steel.)
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich. (Aluminum for refrigerated trailers.)
Gramm Trailer Corp., 425 E. O'Connor Ave., Lima, Ohio.
Great Lakes Steel Corp., Stran-Steel Div., Ecorse, Detroit 29, Mich. (Steel.)
Inland Steel Co., 38 S. Dearborn St., Chicago 3, Ill. (Steel.)
Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh 30, Pa. (Steel.)
Plant Maintenance, Inc., 623 Green Rd., Cleveland 21, Ohio.
Revere Copper & Brass, Inc., 230 Park Ave., New York 17, N. Y. (Aluminum.)
Reynolds Metals Co., Third & Grace Sts., Richmond 19, Va. (Aluminum.)

**FLUID, Hydraulic Brake and Shock Absorber**

Allube Corp., 928 Allen Ave., Glendale 1, Calif.
Barton Products Co., 1891 N. Winnebago Ave., Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. (Brake.)
Bowes "Seal Fast" Corp., 5902 E. 34th St., Indianapolis 18, Ind. (Brake.)
Chicago Hydraulic Oil Co., 371 E. 116 St., Chicago 28, Ill.
Drew & Co., E. F., (Automotive Chemicals Div.), 15 E. 26th St., New York, N. Y.
du Pont de Nemours & Co., Finishers Div. Specialties Sales, Wilmington 98, Del. (Brake.)
Eis Automotive Corp., Middletown, Conn. (Brake.)
Gilpak Automotive Products, Div. Packer Auto Parts, Inc., Roselle, N. J. (Brake.)
Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. (Brake.)
Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa.
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind.
Johns Manville Dutch Brand Div., 7800 Woodlawn Ave., Chicago 19, Ill.
Lisle Corp., Brake Div., 805 E. Main St., Clarinda, Iowa.
Loreman Products, Moore & Division Sts., Salisbury, Md. (Brake.)
Master Co., 37 Preston Ct., Brooklyn 34, N. Y. (Brake.)
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. (Brake.)
Motor Kool Products Co., 505 Buttles Ave., Columbus 8, Ohio. (Brake.)
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Brake.)
Octagon Process Inc., 15 Bank St., Staten Island 1, N. Y.
Olin Mathieson Chemical Corp., Industrial Chemical Div., Mathieson Bldg., Baltimore 3, Md.
Park Chemical Co., 8074 Military Ave., Detroit 4, Mich.
Penetone Co., 74 Hudson Ave., Tenafly, N. J. (Brake.)
Permatex Co. 300 Broadway Huntington Station New York N. Y.
Petroleum Chemicals Co., Tilton Rd., Danville, Ill.
Porte Mfg. Co., 3179 Atlantic Ave., Brooklyn 8, N. Y.
Quaker Supreme Chemical Corp., P. O. Box 1951, Montgomery, Ala. (Brake.)
Radiator Specialty Co., 1400 W. Independence Blvd., Charlotte 1, N. C. (Brake.)
Raybestos Div. of Raybestos-Manhattan Inc., 75 E. Main St., Stratford 2, Conn. (Brake.)
Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
Sinclair Refining Co., 600 Fifth Ave., New York, N. Y. (Brake.)
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stanley Co., John T., 642 W. 30th St., New York, N. Y.
Thermoid Co., Whitehead Rd., Trenton 6, N. J. (Brake.)
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Union Carbide Chemicals Co., 30 E. 42nd St., N. Y. 17, N. Y. (Brake.)
U. S. Chemical & Supply Co., 400 E. 10th Ave., N., Kansas City 16, Mo.
United Motor Service, United States Aviex Co., 1350 Maple St., Niles, Mich. (Brake.)
Universal Chemical Div. R. M. Hollingshead Corp., 840 Cooper St., Camden 2, N. J.
V-O Mfg. Co., 13165 Sherman Ave., North Hollywood, Calif.
Wagner Electric Corp., 6470 Plymouth Ave., St. Louis 14, Mo. (Brake.)
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.
Warwick Laboratories Co., 334 Cleveland St., Brooklyn 8, N. Y.
White & Bagley Co., 100 Foster St., Worcester 8, Mass. (Shock absorbers.)
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif. (Brake.)

**FLUID, Starting, Diesels**

California Oil Co., The, Barber, N. J.
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
Starting Fluid Co., P. O. Box 584, Camden 1, N. J.
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Cal. (Also gasoline engines.)

**FLUSHERS, Crankcase**

Hydro-Air Cleaning Systems, Inc., 11311 Miles Ave., Cleveland 5, Ohio.

**FLUSHERS, Differential & Transmission**

Aro Equipment Corp., Bryan, Ohio.
Coil Mfg. Co., 1013 N. Fares Ave., Evansville 11, Ind. (Guns.)
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa.
Oakite Products, Inc., 19 Rector St., New York, N. Y.
Wilson, Inc., K. R., Arcade, N. Y.

**FLUSHERS, Radiator and Block, Portable**

Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich. (Guns.)
Choldun Mfg. Corp., 331 East St., New Haven, Conn.
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa. (Nozzles.)
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Liquid Veneer Corp., 215 E. Ellicott St., Buffalo 3, N. Y.
Sodrin Corp., 2748 McGee Trafficway, Kansas City, Mo. (Guns.)
Trippe Mfg. Co., 133 N. Jefferson St., Chicago 6, Ill.
U. S. Chemical & Supply Co., 400 E 10th Ave., N., Kansas City 16, Mo.

**FLUX, WELDING, See Compounds, Welding**
**FOG LIGHTS, See Lamps, Fog, Head and Spot**
**FORK LIFT TRUCKS, See Trucks, Lift**

**FORMS, Fleet Record**

Fleet Forms Co., 1410 N. High St., Columbus 16, Ohio.
Ideal System Co., 2437 W. Pico Blvd., Los Angeles 6, Cal.
McBee Co., Athens, Ohio.
Milbin Printing Co., 132 W. 22nd St., New York 11, N. Y.
Uarco, Inc., 5000 S. California Ave., Chicago 32, Ill.

**FOUNTAIN BRUSHES, See Washers, Fountain Brushes & Mops**

**FRAMES, Pressed Steel**

Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa.
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.
Midland-Ross Corp., Cleveland Div., Madison Ave. & W. 106th St., Cleveland, Ohio.
Midland-Ross Corp., Detroit Div., 6660 Mt. Elliott Ave., Detroit 11, Mich.
Midland Steel Products Co., Owosso Div., 490 S. Chestnut St., Owosso, Mich.
Parish Pressed Steel Div. of Dana Corp., Robeson & Weiser Sts., Reading, Pa.
Smith Corp., A. O., 27th & Hopkins Sts., Milwaukee 1, Wis.

**FRAMES, Trailer Door**

Andrews Industries, Inc., P. O. 418, St. Louis, Mo.

**FRAMES, Truck**

Hoosier Tarpaulin & Canvas Goods Co., Inc., 1302 W. Washington St., Indianapolis, Ind.

**FRONT END ALIGNMENT EQUIPMENT, See Gages, Wheel & Axle Aligning**

**FUELS, Engine**

American Liquid Gas Corp., 1109 Santa Fe Ave., Los Angeles 21, Cal. (LP-Gas.)
American Oil Co., American Bldg., Baltimore, Md.
Associated Division, Tide Water Associated Oil Co., 79 New Montgomery St., San Francisco, Calif.
Atlantic Refining Co., 260 S. Broad St., Philadelphia, Pa.
Cities Service Oil Co., 60 Wall Tower, New York 5, N. Y.
Continental Oil Co., Continental Oil Bldg., Ponca City, Okla.
D-X Sunray Oil Co., 907 S. Detroit Ave., Tulsa 2, Okla.
Emerol Mfg. Co., 242 W. 69th St., New York, N. Y.
Esso Standard Oil Co., Esso Bldg., 15 W. 51st St., New York, N. Y.
Ethyl Corp., New York 17, N. Y. (Diesel Ignition Improver.)
Gulf Oil Corp., Gulf Building, Pittsburgh, Pa.
Mid Continent Petroleum Corp., Tulsa 2, Okla.
Pennsylvania Refining Co., Butler Savings & Trust Co., Butler, Pa.
Phillips Petroleum Co., Bartlesville, Okla.
Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.
Richfield Oil Corp., Richfield Bldg., 555 S. Flower St., Los Angeles 13, Calif.
Shell Oil Co., Shell Bldg., San Francisco, Calif.
Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
Sinclair Refining Co., 630 Fifth Ave., New York 20, N. Y.
Socony Mobil Oil Co., 42nd St. & Lexington Ave., New York 17, N. Y.
Standard Oil Co. of California, Standard Oil Bldg., San Francisco, Calif.
Standard Oil Co. (Indiana), 910 S. Michigan St., Chicago 80, Ill.

# New Holley '59 Carburetors can be serviced in minutes— WHILE ON THE ENGINE!

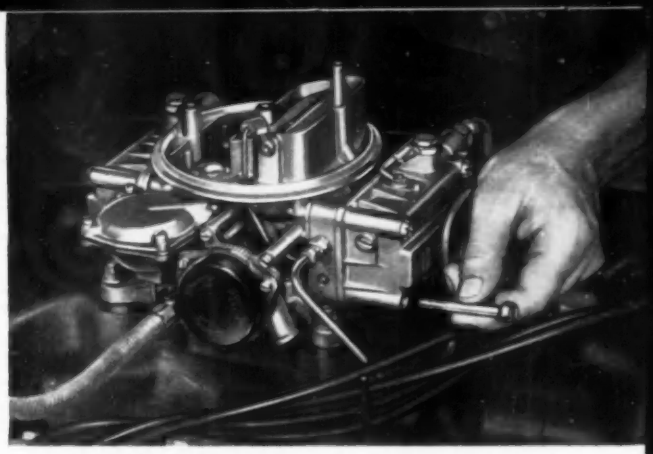
Many 1959 automobiles and trucks will be equipped with newly designed Holley two and four barrel carburetors that have a special needle and seat assembly which makes carburetor service a matter of minutes.

All carburetor minor repair—90% of carburetor service requirements under 30,000 miles—can be completed in the time it takes to remove and replace a single spark plug; and, without removing the carburetor from the engine.

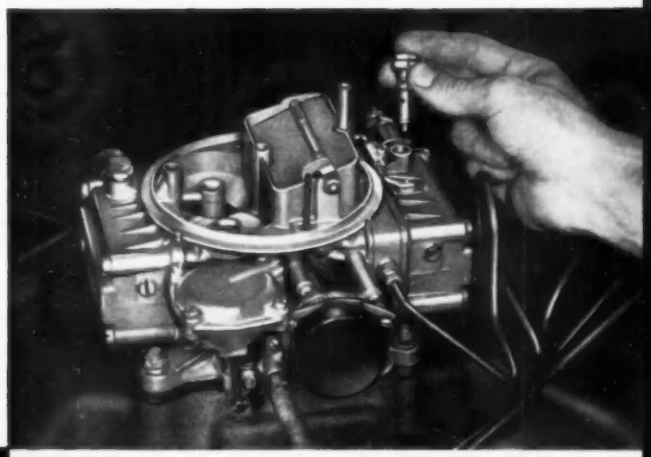
These Holley 1959 models will substantially reduce customer service complaints and will make minor repair work more profitable and more accurate for the service man. With just the four simple steps shown on this page service men can:

1. Purge the carburetor of dirt and foreign matter.
2. Accurately adjust the fuel level in the bowl.
3. Replace or adjust the fuel inlet needle and seat.

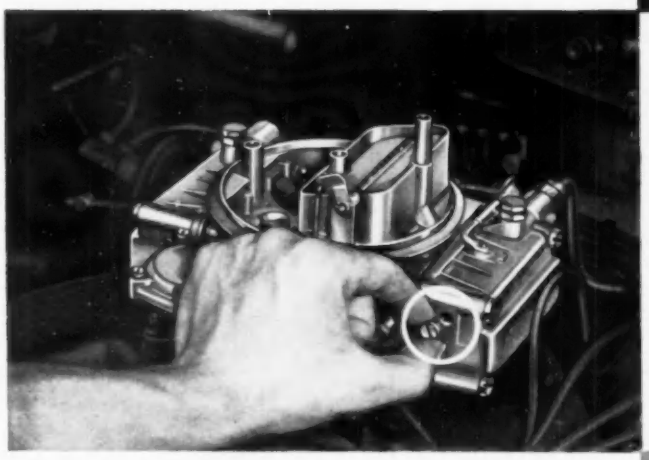
These new 1959 carburetors are another example of Holley's continuing leadership in the design and engineering of fuel and ignition equipment.



**1** *With ignition off, remove lower bowl screw farthest from fuel inlet. Allow all gasoline to drain, purging the carburetor of dirt and sludge.*

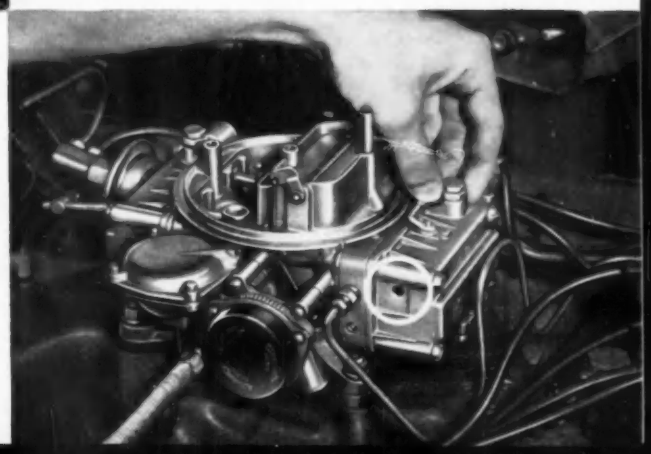


**2** *Remove fuel needle and seat and examine for wear and general condition. Replacement can be made at low cost although there should be no evidence of wear until after 20,000 miles.*



**3** *With engine running, remove sight plug from carburetor bowl opposite fuel inlet. If fuel level is too high, excessive fuel will drain through sight plug opening. For proper operation, fuel level should be on line with threads at bottom of sight port.*

**4** *Loosen top lock nut on needle and seat assembly and adjust with lower nut until float maintains fuel at desired level. Tighten lock nut and minor repair is completed.*



HOLLEY Carburetor Co.

For more than half-a-century—original equipment manufacturers for the automotive industry

11955 E. NINE MILE ROAD • WARREN, MICHIGAN

I-29

# A chain

. . . a dependable, durable, safety-forged chain of *matched* links guaranteeing specific job performance . . . or it can be an assembly of distantly related, oddly assorted, individualized links.

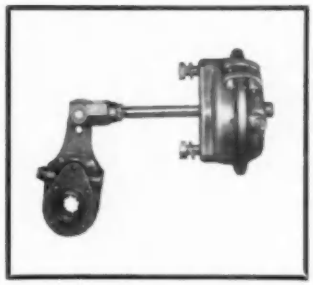
And this is true also of the chain of devices that comprise an air brake system.

When you specify Bendix-Westinghouse Air Brakes for your vehicles, you can be certain you are buying a system-engineered chain with a proven performance record. It is a *complete* chain because every device, every single component, is designed and built to perform a specific function

# is what you make it...

with peak efficiency in a *closely related* system. And because it is a complete chain it will pay you dividends in terms of greater dependability, longer trouble-free service with extra safety and economy.

When you buy new equipment be sure to specify a *complete* Bendix-Westinghouse Air Brake system . . . a system for whose performance, dependability, and long life we accept complete responsibility. Thousands of truck and bus operators know this. That is why more trucks and buses are equipped with complete Bendix-Westinghouse Air Brake systems than by all other makes combined.

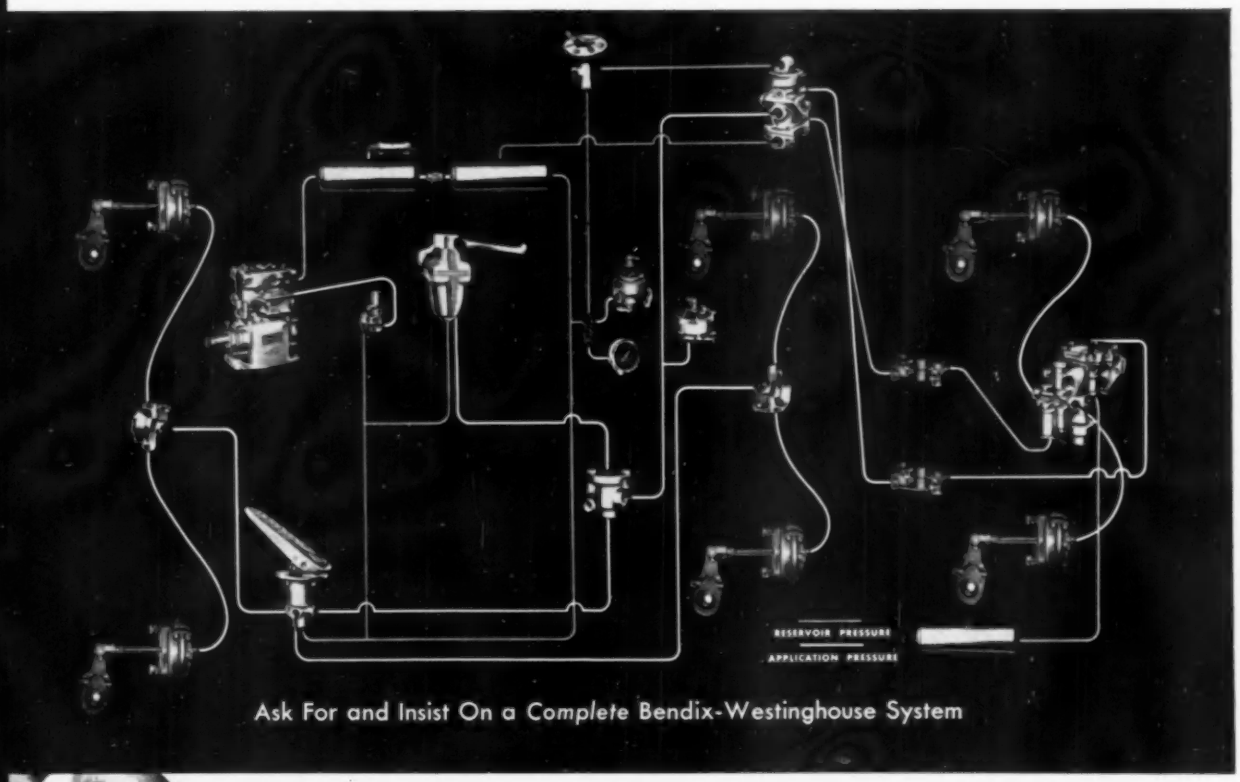


Typical of many dependable devices designed and built by Bendix-Westinghouse are slack adjusters and brake chambers—perfectly matched and precisely built links in the dependable, durable, safety-forged chain you get when you buy a *complete* Bendix-Westinghouse Air Brake system.

**Bendix-Westinghouse**

AUTOMOTIVE AIR BRAKE COMPANY

General offices and factory—Elyria, Ohio. Branches—Berkeley, Calif. and Oklahoma City, Okla.




Ask For and Insist On a *Complete* Bendix-Westinghouse System

**FUELS—continued**

Sun Oil Co., Marcus Hook, Pa.
Texas Co., The, 135 E. 42nd St., New York 17, N. Y.
Tide Water Associated Oil Co., 17 Battery Place, New York, N. Y.
Union Oil Co. of California, Union Oil Bldg., Los Angeles 17, Calif.

FUEL FILTERS, See Filters, Gasoline; also Filters, Diesel, Fuel
FUEL INJECTORS, DIESEL, See Injector Systems, Gasoline and Diesel Engine
FUEL LINES, FLEXIBLE, See Tubing, Oil and Gasoline Line
FUEL PUMP PARTS, See Parts, Fuel Pump
FUEL PUMP TESTERS, See Testers, Fuel Pump
FUEL PUMPS, See Pumps, Fuel
FUSEES, See Flares, Highway Lighting

**FUSES, Electric**

Auto Products Mfg. Co., 314 N. Ewing St., St. Louis 3, Mo.
Bussmann Mfg. Div. McGraw-Edison Co., 2536 University St., St. Louis 7, Mo.
Eagle Electric Mfg. Co., 23-10 Bridge Plaza South, Long Island City 1, N. Y.
Littlefuse, Inc., 1865 Miner St., Des Plaines, Ill.
Monarch Electric Corp., 118 E. 1st St., Jamestown, N. Y.
Preferred Electric & Wire Co., Bush Terminal Bldg., #8, Brooklyn 32, N. Y.
Reynolds Mfg. Co., 1419 Alamo National Bldg., San Antonio 5, Tex.
Royal Electric Corp., 95 Grand Ave., Pawtucket, R. I.
Sightmaster Corp., 111 Cedar St., New Rochelle, N. Y.
Signal-Stat Corp., Signal-Stat Bldg., 523 Kent Ave., Brooklyn 11, N. Y.
Trico Fuse Mfg. Co., 2948 N. Fifth St., Milwaukee 12, Wis.
Ware Fuse Corp., 4406 W. Lake St., Chicago, Ill.

**GAGES, Brake Drum**

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
C. & G. Wheel Puller Co., Scio, N. Y.
Grigg Specialty Tools, 8103 Marbrisse Ave., Huntington Park, Calif.
Johns-Manville, 22 E. 40th St., New York 16, N. Y.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 47, Calif.
Van Norman Automotive Equipment Co., 3640 Main St., Springfield 7, Mass.

**GAGES, Brake Shoe**

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
C. & G. Wheel Puller Co., Scio, N. Y.
Miller Mfg. Co., 17640 Grand River Ave., Detroit 27, Mich.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 31, Calif.
Shepard-Thomason Co., 2033 W. Gage Ave., Los Angeles 47, Calif.
Wilson, Inc., K. R., Arcade, N. Y.

**GAGES, Cylinder**
(See also Micrometers)

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Chicago Dial Indicator Co., 180 N. Wacker Dr., Chicago 6, Ill.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Sheffield Corp., 721 Springfield St., Dayton 1, Ohio.
Standard Gage Co., Poughkeepsie, N. Y.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
Swedish Gage Co. of America, 10641 Haggerty Ave., Dearborn 1, Mich.

**GAGES, Cylinder, Compression**

Acme Air Appliance Co., 205 Newman St., Hackensack, N. J.
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Auto-Test Inc., 600 S. Michigan Ave., Chicago 5, Ill.
Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa. (Diesel engine.)
Cornwall Quality Tools Co., Mogadore, Ohio.
Electric Auto-Lite Co., Toledo 1, Ohio.
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Fisher Products Corp., A. R., 21-21 44th Drive, Long Island City 1, N. Y.
G. M. Co Mfg., Inc., 13-08 43rd Ave., Long Island City, N. Y.
Griswold Mfg. Co., F. T., Lancaster Pike, Wayne, Pa. (Leak tester.)
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Kennedy Service Tools Co., 788 Evans Ave., Akron 5, Ohio
King Electric Equipment Co., 9123 Inman Ave., Cleveland 5, Ohio.
Mack Products Co., 15 Putnam St., Winthrop, Mass.
Miller Mfg. Co., 17640 Grand River Ave., Detroit 27, Mich.
Nasa Tool Mfg. Corp., 3427 Locust Corner Rd., Amelia, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.
Weidenhoff Corp. Algona, Iowa.

**GAGES, Dial**

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Boice Gages Inc., Hyde Park, N. Y. (Snap and bore.)
Bristol Co., Waterbury 20, Conn.
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Dow Mechanical Corp., Thompsonville, Calif.
Federal-Mogul Service, Detroit 13, Mich.
Federal Products Corp., 1144 Eddy St., Providence, R. I.
Lincoln Park Industries, Inc., 1719 Ferris Ave., Lincoln Park 24, Mich. (Snap.)
Nilsson Gage Products Inc., Hyde Park, N. Y.
Omega Service Parts Corp., Empire State Bldg., 350 5th Ave., New York 1, N. Y.
Rimat Gage Co., 21 W. Dayton St., Pasadena 2, Calif. (Bore.)
Sealol Corp., Warwick Industrial Park, Providence 5, R. I.
Sheffield Corp., 721 Springfield St., Dayton 1, Ohio.
Standard Gage Co., Poughkeepsie, N. Y.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.

**GAGES, Engine Vacuum**

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Electric Auto-Lite Co., Toledo 1, Ohio.
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Kennedy Service Tools Co., 788 Evans Ave., Akron 5, Ohio.
King Electric Equipment Co., 9123 Inman Ave., Cleveland 5, Ohio.
Nasa Tool Mfg. Corp., 3427 Locust Corner Rd., Amelia, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago 14, Ill.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Syracuse Gauge Co., P. O. Box 51, Manlius, N. Y.
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.
Wallace & Tiernan Inc., 25 Main St., Belleville 9, N. J.
Weidenhoff Corp., Algona, Iowa.

**GAGES Gasoline, Dash Type**

AC The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Electric.)
Electric Auto-Lite Co., Toledo 1, Ohio.
King-Seeley Corp., 315 S. First St., Ann Arbor, Mich.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Pkwy., Chicago, Ill. (Electric.)
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa. (Electric.)

**GAGES Gasoline, Tank Type**

Boston Auto Gage Co., 70 West St., Pittsfield, Mass.
Electric Auto-Lite Co., Toledo 1, Ohio.
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.

**GAGES, Liquid Level, Storage Tank**

Bristol Co., Instrument Div., 117 Bristol Rd., Waterbury, Conn.
Liquidometer Corp., 39-20 Skillman Ave., L. I. City, N. Y.
Scully Signal Co., 84 First St., Cambridge, Mass.
Tokheim Co., 119 C Ave., N.W., Cedar Rapids, Ia.
Uehling Instrument Co., 473 Getty Ave., Paterson 3, N. J.

**GAGES, Oil Level**

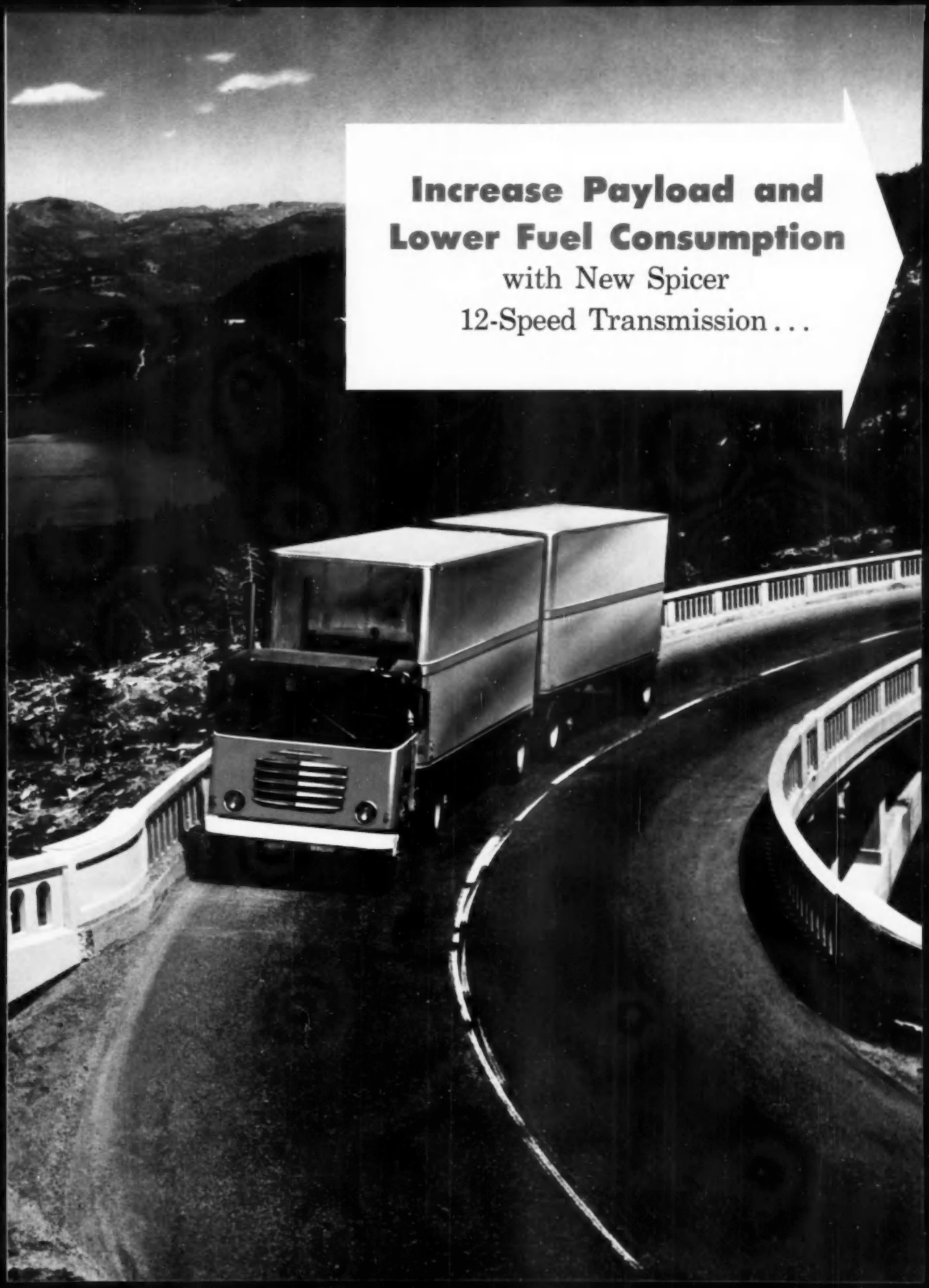
Bristol Co., Waterbury 20, Conn.
Electric Auto-Lite Co., Toledo 1, Ohio.
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Pkwy., Chicago 14, Ill.
Trico Fuse Mfg. Co., 2948 N. 5th St., Milwaukee 12, Wis.

**GAGES, Oil Pressure**

AC The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Mechanical and electric.)
Bristol Co., Waterbury 20, Conn.
Dunn Mfg. Co., 117 15th St., Clarinda, Iowa.
Electric Auto-Lite Co., Toledo 1, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
King-Seeley Corp., 315 S. First St., Ann Arbor, Mich.
Murphy Mfr. Inc., Frank W., 5428 E. Admiral Pl., Tulsa, Okla. (With safety switch.)
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Pkwy., Chicago, Ill.
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.

**GAGES, Thickness or Feeler**

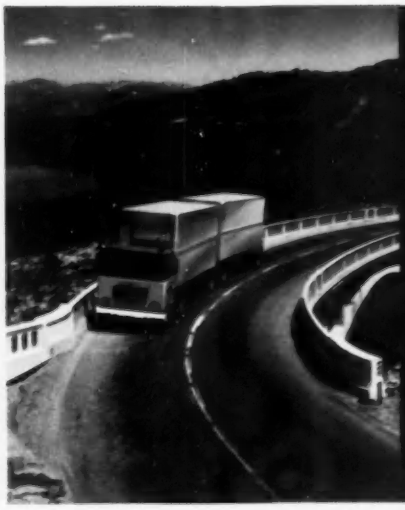
Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Central Tool Co., 456 Wellington Ave., Cranston 10, R. I.
Cornwell Quality Tools Co., Mogadore, Ohio.
D'Nomlart Inc., 100 Maple St., Ashburnham, Mass.

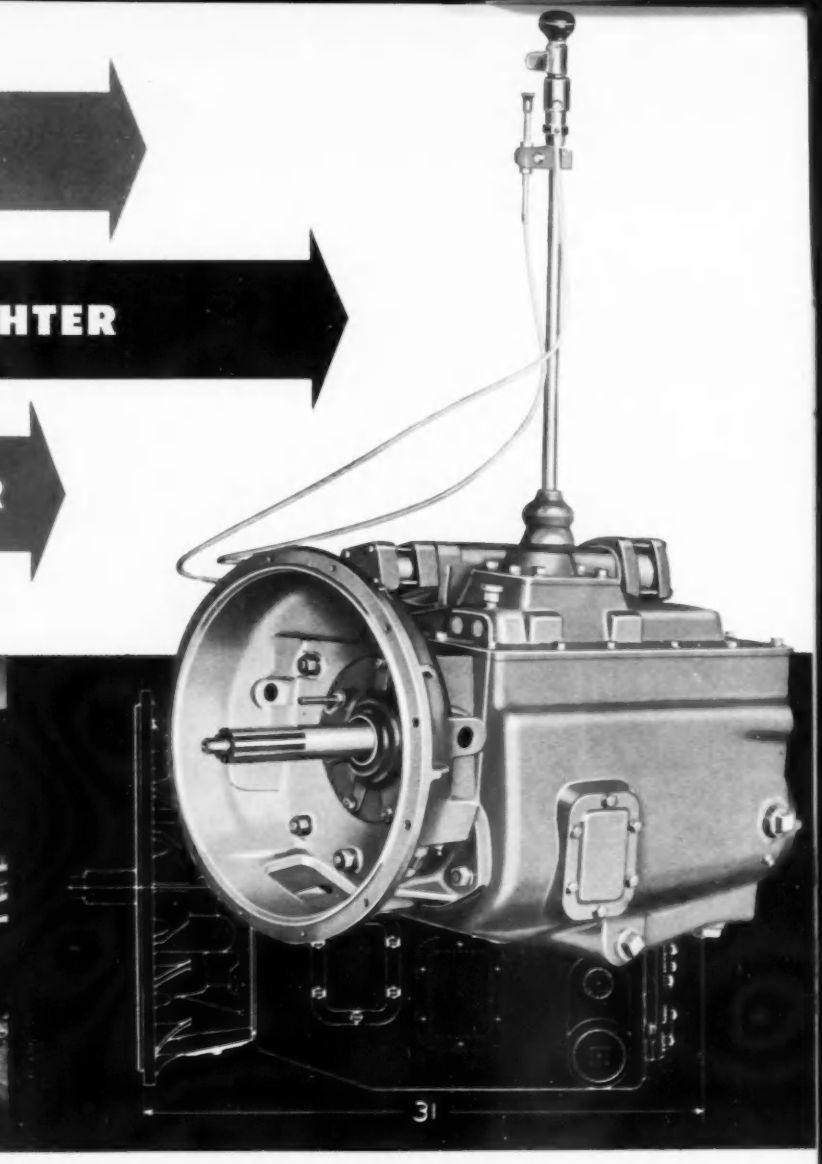

Increase Payload and
Lower Fuel Consumption
with New Spicer
12-Speed Transmission . . .

**12-SPEEDS**

**200 LBS. LIGHTER**

**12 INCHES SHORTER**

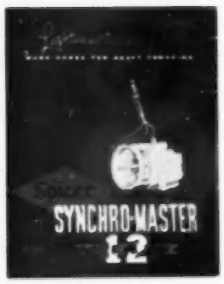





Now you can shorten the wheelbase by at least a foot, and increase payload by 200 lbs. At the same time you eliminate the auxiliary transmission and the two-speed axle.

No other transmission has ever given you so much efficiency—both on and off the highway—as your new Spicer Synchro-Master 12.

**Write for booklet—Dana engineers want to help you adapt this revolutionary new Spicer transmission to your heavy-duty truck needs. Your letter, wire or telephone call will receive immediate attention.**




**DANA CORPORATION • Toledo 1, Ohio**

***DANA PRODUCTS Serve Many Fields:***

**AUTOMOTIVE:** Transmissions, Universal Joints, Propeller Shafts, Axles, Power-Lok Differentials, Torque Converters, Gear Boxes, Power Take-Offs, Power Take-Off Joints, Clutches, Frames, Forgings, Stampings.

**INDUSTRIAL VEHICLES AND EQUIPMENT:** Transmissions, Universal Joints, Propeller Shafts, Axles, Gear Boxes, Clutches, Forgings, Stampings.

**AVIATION:** Universal Joints, Propeller Shafts, Axles, Gears, Forgings, Stampings.

**RAILROAD:** Transmissions, Universal Joints, Propeller Shafts, Generator Drives, Rail Car Drives, Pressed Steel Parts, Traction Motor Drives, Forgings, Stampings.

**AGRICULTURE:** Universal Joints, Propeller Shafts, Axles, Power Take-Offs, Power Take-Off Joints, Clutches, Forgings, Stampings.

**MARINE:** Universal Joints, Propeller Shafts, Gear Boxes, Forgings, Stampings.

*Many of these products manufactured in Canada by Hayes Steel Products Limited, Merritton, Ontario*

DANA
Spicer

### GAGES—continued

Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Federal Products Corp., 1144 Eddy St., Providence, R. I. (Dial indicator.)
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
Klopp Engrg. Inc., 35551 Schoolcraft St., Levonia, Mich.
Lincoln Park Industries, Inc., 1719 Ferris Ave., Lincoln Park 25, Mich.
Lufkin Rule Co., Hess Ave., Saginaw, Mich.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Miller Co., L. B., 336 W. Main St., Stamford, Conn.
Millers Falls Co., Greenfield, Mass.
Nasa Tool Mfg. Corp., 3427 Locust Corner Rd., Amelia, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
P. & C Hand Forged Tool Co., Box 5926, Milwaukie, Ore.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Proto Tools, 2209 Santa Fe Ave., Los Angeles, 54, Calif.
Quality Tools Corp., Railroad St., New Wilmington, Pa.
Roytar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Sheffield Corp., 721 Springfield St., Dayton 1, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Starrett Co., L. S., 1 Crescent St., Athol, Mass. (Also feeler stock.)
Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa.
Union Tool Co., 48 E. River St., Orange, Mass.
Van Keuren Co., 176 Waltham St., Watertown, Mass.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

### GAGES, Tire Pressure

(See also Meters, Air Tower)

Acme Air Appliance Co., 205 Newman St., Hackensack, N. J.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
Druge Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Calif. (Sole distributors, Tru-Flate, Inc., 888 92nd Ave., Oakland 3, Calif.)
Fisher Products Corp., A. R., 21-21 44th Drive, Long Island City 1, N. Y.
G.M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, N. Y.
Omega Service Parts Corp., Empire State Bldg., 350 5th Ave., New York 1, N. Y.
Schrader's Son, Div. of Scovill Mfg. Co., Inc., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.
Syracuse Gauge Co., P. O. Box 51, Manlius, N. Y.

### GAGES, Water Temperature

AC The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Mechanical and electric.)
Electric Auto-Lite Co., Toledo 1, Ohio.
King-Seeley Corp., 315 S. First St., Ann Arbor, Mich.
Murphy Mfg. Inc., Frank W., 5428 E. Admiral Pl., Tulsa, Okla. (With safety switch.)
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Pkwy., Chicago, Ill.
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.

### GAGES, Wheel and Axle Aligning

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Bender Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif.
Bennett-Feragen, 1405 Jerome St., Niles, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duby Co., John F., 744 Gallivan Blvd., Dorchester 22, Mass.
Hunter Engrg. Co., Hunter Ave. & Ladue Rd., St. Louis 24, Mo.
Kent-Moore Organization, 1501 S. Jackson St., Jackson, Mich.
Krumm Mfg. Co., T. F., 5150 Lewis Ave., Toledo 12, Ohio.
Kwik-Ezee, Inc., 54 Brooklyn Ave., Westbury, N. Y. (Magnetic.)
Manbee Equip. Div., Bear Mfg. Co., P. O. Box 607, Rock Island, Ill.
Merrill Axle & Wheel Service, 12th & Acoma Sts., Denver, Colo.
Mesco Products, Crete, Neb.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wilco Products, Inc., 595 Valley St., Orange, N. J.
Zoerman-Clark Mfg. Co., Jackson, Mich.

### GAGES, Wheel & Axle

Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wilco Products, Inc., 595 Valley St., Orange, N. J.
Zoerman-Clark Mfg. Co., Jackson, Mich.

### GAS, Acetylene

Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Linde Co., 30 E. 42nd St., New York 17, N. Y. (Cylinders.)
Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa. (Cylinders.)
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. (Cylinders.)

### GAS, Hydrogen

Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio
Linde Co., 30 E. 42nd St., New York 17, N. Y.
Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa. (Cylinders.)
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. (Cylinders.)

GAS, LP, See Fuels, Engine

### GAS, Oxygen

Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Linde Co., 30 E. 42nd St., New York 17, N. Y.
Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa. (Cylinders.)
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. (Cylinders.)

### GASKETS, Asbestos

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
Armstrong Cork Co., Industrial Div., Lancaster, Pa.
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Beaverite Products, Inc., Beaver Falls, N. Y.
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.
Chambers Gasket & Mfg. Co., 4701 W. Rice St., Chicago 51, Ill.
Cleveland Gasket & Mfg. Co., 1610 W. 116th St., Cleveland 2, Ohio.
Consolidated Packing & Supply Co., 37-39 Murray St., New York 7, N. Y.
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.
Darcoid Co., 145 Sixth Ave., New York 13, N. Y.
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Excelsior Leather Washer Mfg. Co., 720 Chestnut St., Rockford, Ill.
Felt Products Mfg. Co., 7450 N. McCormick Blvd., Skokie, Ill.
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Garlock Packing Co., 402 Main St., Palmyra, N. Y.
Gasket Engrg. Co., 3125 Wyandotte St., Kansas City 11, Mo.
Gasket, Packing & Specialty Co., 41 N. Saxon Ave., Bay Shore, L. I., N. Y.
Greene, Tweed & Co., North Wales, Pa.
Johns-Manville, 22 E. 40th St., New York 16, N. Y.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia, Pa.
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Meirath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
Mitchell & Smith Div., Sheller Mfg. Corp., 8900 Hampton Blvd., Norfolk 8, Va.
Raybestos-Manhattan Inc., Packing Div., 61 Willet St., Passaic, N. J.
Rhopoc Inc., 3425 Cleveland St., Skokie, Ill.
Rogers Corp., Rogers, Conn.
United Packing & Gasket Engr. Corp., 5111 Ogden Ave., Cicero 50, Ill.
Vellumoid Co., 54 Rockdale St., Worcester 6, Mass. (Wire woven.)
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.

### GASKETS, Copper-Asbestos

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Felt Products Mfg. Co., 7450 N. McCormick Blvd., Skokie, Ill.
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Gasket Packing & Specialty Co., 3-5 Waverly Pl., New York 3, N. Y.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.
Meirath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
United Packing & Gasket Engr. Corp., 5111 Ogden Ave., Cicero 50, Ill.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.

### GASKETS, Cork

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.
Armstrong Cork Co., Industrial Div., Lancaster, Pa. (Composition.)
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Automotive Products Div., Crotty Corp., 89 E. Chicago Ave., Quincy, Mich.
Chambers Gasket & Mfg. Co., 4701 W. Rice St., Chicago 51, Ill.
Chicago Cork Works Co., 5289 N. Avondale Ave., Chicago 30, Ill.
Cleveland Gasket & Mfg. Co., 1602 W. 116th St., Cleveland 2, Ohio.
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.
Coyne & Paddock, Inc., 40 09 21st St., Long Island City 1, N. Y.
Cranz Co., J. M., 2671 Main St., Buffalo 14, N. Y.
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Excelsior Leather Washer Mfg. Co., 720 Chestnut St., Rockford, Ill.
Felt Products Mfg. Co., 7450 N. McCormick Blvd., Skokie, Ill.
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Garlock Packing Co., 402 Main St., Palmyra, N. Y.
Gasket Engineering Co., 3125 Wyandotte St., Kansas City 11, Mo.
Gasket, Packing & Specialty Co., 41 N. Saxon Ave., Bay Shore, L. I., N. Y.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.

**Eldon Miller, President,** tells of his experience—and the first-hand experience of the company's operating heads—with ASF Safety 5th Wheels.

*Eldon Miller, Inc., with general offices*

# "Here's the Lock

One of the top names in bulk hauling—progressive Eldon Miller, Inc.—knows a good product when they see one. Here's what they say about ASF® Safety 5th Wheels:

> **"We feel safer with ASF. In the years since we've standardized on them, we've never had a breakdown . . . never lost a trailer . . . because the lock just never lets go."**

Of course, anyone puts a premium on safety. But Eldon Miller, Inc., has pioneered in weight reduction, too. In switching to ASF, they got more payload and less deadload . . . another way of building profits. As for maintenance:

> **"Since using ASF wheels, not a single king-pin has needed replacement. They just don't wear out.**

## Why the ASF® Safety 5th Wheel is the Best Answer for Liquid Hauling

**Jaws always grip the pin tightly**

ASF has the only true "compression" lock—with a rubber buffer that compresses upon coupling impact. With the king-pin under compression, backlash is eliminated. To compensate for inevitable jaw wear, simply insert a low-cost shim.

**Largest king-pin bearing area of any 5th wheel**

ASF jaws grip the pin at the top—and almost cradle the pin for its entire length at points of greatest stress. Pressure on the pin is spread over the widest possible area—which makes the pin last much longer and reduces bending stresses.

**Gravity—plus spring—lock action for double safety**

ASF lock closes by gravity *and* springs for safe, sure locking. Lever, working by gravity, swings cam to locked position. Springs speed the action—even if they fail, lock *stays* secure until cam is rotated by locking handle.

One of 20 new aluminum tankers which have recently joined the Miller fleet. Equipped with recording meters and permanently installed measuring gauges —and ASF Safety 5th Wheels exclusively.

*in Iowa City, puts it this way...*

# *That Never Lets Go!"*

**We can shim the jaws to keep the pin tight—a necessity when you have the surging effect of liquid loads."**

Thanks, Mr. Miller, for your comments. If ASF has satisfied customers, it's because we've concentrated on building the finest wheel money can buy. And by "finest" we mean one that's safe . . . comparatively light in weight . . . lowest-cost to maintain.

If that's what *you're* looking for, see your nearest ASF Distributor, or write American Steel Foundries, Hammond Division, Hammond, Indiana.

**Make an investment in safety...**
**with**

**ASF safety 5th wheels**

**A product of American Steel Foundries**

### GASKETS—continued

McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
Mitchell & Smith Div. Sheller Mfg. Corp., 8900 Hampton Rd., Norfolk 5, Va.
Mundet Cork Corp., 7101 Tonnelle Ave., North Bergen, N. J.
Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 34, Pa.
Rhopac Inc., 3425 Cleveland St., Skokie, Ill.
Sutherland Leather & Felt Co., 743 Beaubien St., Detroit 26, Mich.
United Packing & Gasket Engr. Corp., 5111 Ogden Ave., Cicero 50, Ill.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.
Wolverine Fabricating & Mfg. Co., 2638 Princess Ave., Inkster, Mich.

### GASKETS, Fibrous and Paper

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Advance Felt & Gasket Co., 663 W. Washington Blvd., Chicago, Ill.
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
Armstrong Cork Co., Industrial Div., Lancaster, Pa.
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Automotive Products Div., Crotty Corp., 35 E. Chicago Ave., Quincy, Mich.
Beaverite Products, Inc., Beaver Falls, N. Y.
Brandywine Fibre Products Co., 15th & Poplar Sts., Wilmington, Del.
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.
Chambers Gasket & Mfg. Co., 4701 W. Rice St., Chicago 51, Ill.
Circle Z, R.F.D. No. 2, Pomfret Center, Conn.
Cleveland Gasket & Mfg. Co., 1602 W. 116th St., Cleveland 2, Ohio.
Consolidated Packing & Supply Co., 37-39 Murray St., N. Y. 7, N. Y.
Continental-Diamond Fibre Corp., Newark 10, Del.
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.
Coyne & Paddock, Inc., 40-09 21st St., Long Island City 1, N. Y.
Cranz Co., J. M., 2671 Main St., Buffalo 14, N. Y.
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Excelsior Leather Washer Mfg. Co., 720 Chestnut St., Rockford, Ill.
Felt Products Mfg. Co., 7450 N. McCormick Blvd., Skokie, Ill.
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Garlock Packing Co., 402 Main St., Palmyra, N. Y.
Gasket Engrg. Co., 3125 Wyandotte St., Kansas City 11, Mo.
Gasket Packing & Specialty Co., 41 N. Saxon Ave., Bay Shore, L. I., N. Y.
Johns-Manville, 22 E. 40th St., New York 16, N. Y.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Kuehn Co., N. L., 407 W. Highland Ave., Milwaukee 3, Wis.
Latex Fiber Industries, Inc., Beaver Falls, N. Y.
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
Mitchell & Smith Div., Sheller Mfg. Corp., 8900 Hampton Rd., Norfolk 5, Va.
Penn Fibre & Specialty Co., 2024 E. Westmoreland St., Philadelphia 34, Pa.
Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 34, Pa.
Presstite-Keystone Engrg. Products Co., 3900 Chouteau St., St. Louis 10, Mo.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Rhopac Inc., 3425 Cleveland St., Skokie, Ill.
Rogers Corp., Rogers, Conn.
Taylor Fibre Co., Norristown, Pa.
United Packing & Gasket Engrg. Corp., 5111 Ogden Ave., Cicero 50, Ill.
Vellumoid Co., 54 Rockdale St., Worcester, Mass.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.
Wilmington Fibre Specialty Co., Newcastle, Del.
Wisconsin Gasket & Mfg. Co., 8724A N. Granville Rd., Granville, Wis.
Wolverine Fabricating & Mfg. Co., 2638 Princess Ave., Inkster, Mich.

### GASKET COMPOUNDS

Cabot, Inc., Samuel, 141 Milk St., Boston 9, Mass.
Carborundum Company, Niagara Falls, N. Y
Dewey & Almy Chemical Co., 62 Whittemore Ave., Cambridge 40, Mass.
Duroyd Gasket & Die Mfg. Co., 1828 Amsterdam Ave., New York, N. Y.
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa.
Flexrock Co., Packing Div., 36th & Filbert Sts., Philadelphia 4, Pa.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
P. O. B. Mfg. Co., 3215 Colerain Ave., Cincinnati, Ohio.
Pep Mfg. Co., 33 W. 42nd St., New York, N. Y. (In tubes.)
Permatex Co., 1702 Ave. Y, Brooklyn 35, N. Y.
Stanley Co., John T., 642 W. 30th St., New York, N. Y.
Warehouse Distributors Co., 3810 N. 19th St., Philadelphia 40, Pa.

**GASOLINE, See Fuels, Engine**

**GASOLINE FILTERS, See Filters, Gasoline**

### GATES, Truck, Folding

Ace Iron Works, 510 W. Pershing Rd., Chicago 9, Ill. (Steel, also chain.)
Atlas Fence Co., 3644 Richmond St., Philadelphia 34, Pa.
Bustin Metal Products Co., Dover, N. J.
Logan Co., Cabel St., Louisville 6, Ky.
Roll-O-Matic Chain Co., 200 Wyandotte St., Kansas City 6, W. Mo. (Chain.)
Zehr Products Co., 2130 E. Hazzard St., Philadelphia 25, Pa. (Folding wire.)

**GEAR PULLERS, See Pullers, Bearing, Gear and Wheel**

### GEARS, Flywheel Ring

Automotive Gear Div. Eaton Mfg. Co., S. Eighth & O Sts., Richmond, Ind.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Springfield Mfg. Co., Bechtle Ave. & Columbia St., Springfield, Ohio.
Wohlert Corp., 700 E. Grand River Ave., Lansing 5, Mich.

### GEARS, Landing (Trailer)

Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Binkley Mfg. Co., Warrenton, Mo.
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton 1, Ohio.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.
Holland Hitch Co., 430 W. 18th St., Holland, Mich.
Homan & Co., Inc., 511 Reading Rd., Reading, Cincinnati 15, Ohio.

### GEARS, Steering, Manual

Gemmer Mfg. Co., Div. of Ross Gear & Tool Co., 6400 Mt. Elliott Ave., Detroit 11, Mich.
Ross Gear & Tool Co., 800 Heath St., Lafayette, Ind.
Saginaw Steering Gear Div., General Motors Corp., 3900 Holland Rd., Saginaw, Mich.

**GEARS, STEERING POWER, See Steering, Power**

### GEARS, Timing, Metallic and Non-Metallic

Al-Fin Div., Fairchild Engine & Airplane Corp., Deer Park, L. I., N. Y. (Aluminum with bonded in steel hubs, semi-finished.)
Bangor Plastics Inc., Bangor, Mich.
Chicago Gear Works, 440 N. Oakley Blvd., Chicago 12, Ill.
Cloyes Gear & Products, Inc., 17214 Roseland Rd., N. E., Cleveland 12, Ohio.
Continental-Diamond Fibre Corp., Newark 10, Del.
D & B Mfg. Co., 2312 S. Indiana Ave., Chicago, Ill.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Electric Auto-Lite Co., Toledo 1, Ohio.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Hoof Products Co., 6543 S. Laramie Ave., Chicago 38, Ill. (Metallic.)
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade. Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Timing Gears Corp., 2801 W. Fulton St., Chicago 12, Ill.
Wells, Inc., Martin, 5886 Compton Ave., Los Angeles 1, Calif.
Westinghouse Electric Corp., Micarta Div., 3 Gateway Center, Pittsburgh 30, Pa. (Nonmetallic.)
Wolverine Gear & Parts Co., Osseo, Mich.

### GEARS, Transmission

Automotive Gear Div. of Eaton Mfg. Co., S. 8th & O Sts., Richmond, Ind.
Brad Foote Gear Works Inc., 1309 S. Cicero Ave., Cicero 50, Ill.
Clark Equipment Co., Transmission Div., 1300 Falahee Rd., Jackson, Mich.
Cotta Transmission Co., 2340 11th St., Rockford, Ill.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich. (Truck and tractor.)
Dittmer Gear Div. Borg-Warner Corp., Auburn, Ind.
Fairfield Mfg. Co., State Rd. #52, Lafayette, Ind.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Levene Motor Co., 6245 State Rd., Philadelphia 35, Pa.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 10, Ill.
New Process Gear Div. Chrysler Corp., 500 Plum St., Syracuse, N. Y. (Truck and tractor.)
Perfection Gear Co, 152nd St. & Vincennes Ave., Harvey, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.

### GEARS and PINIONS, Rear Axle

**(For complete units—See Differentials)**

Clark Equipment Co., Transmission Div., 1300 Falahee Rd., Jackson, Mich.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Fairfield Mfg. Co., State Rd. #52, Lafayette, Ind.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Levene Motor Co., 6245 State Rd., Philadelphia 35 Pa.
New Process Gear Div. Chrysler Corp., 500 Plum St., Syracuse, N. Y.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Transmission and Axle Div., Rockwell-Standard Corp., 100-400 Clark Ave., Detroit 32, Mich.
Warner Automotive Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.

### GEARS, Worm Drive

Baush Machine Tool Co., 156 Wason Ave., Springfield, Mass.
Beaver Gear Works, Inc., 1025 Parmele St., Rockford, Ill.
Boston Gear Works, Div. Murray Corp., 14 Hayward St., Quincy 71, Mass.
Chicago Gear Works, 440 N. Oakley Blvd., Chicago 12, Ill.
Cleveland Worm & Gear Co., 3274 E. 80th St., Cleveland 4, Ohio.
Fairfield Mfg. Co., State Rd. No. 52, Lafayette Ind.
L. M. Gear Co., 23120 Gratiot Ave., East Detroit, Mich.
Morse Chain Co., Ithaca, N. Y.
Ohio Forge & Machine Corp., 3010 Woodhill Rd., Cleveland 4, Ohio.
XL Gears, Inc., 69 Prospect St., Newark 5, N. J.

### GENERATORS

American Bosch Div. American Bosch Arma Corp., 3664 Main St., Springfield 7, Mass.
American Generator & Armature Co., 6100 W. Grand Ave., Chicago 39, Ill. (Battery charging.)
Combinator Sales Div., Kurland Motors, 1144 Broadway, Denver 3, Colo.
Delco-Remy, Div. General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Electric Auto-Lite Co., Toledo 1, Ohio.
General Armature & Mfg. Co., Box 370, Lock Haven, Pa.
Kurland Combinator, Denver 3, Colo.
Lane & Beane, 2934 Arunah Ave., Baltimore 16, Md. (Auxiliary.)
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio. (Bus and truck.)

### GENERATORS SETS, Portable

Duplex Truck Co., Lansing, Mich.

### GLASS, Safety

Auto Glass Mfg. Co., 8701 Brinnell Ave., Detroit 13, Mich.
Glass Products, Inc., 9 W. Park Way, Pittsburgh 12, Pa.
Globe Auto Glass Co., 2501 S. Dearborn St., Chicago 16, Ill.
Libbey-Owens-Ford Glass Co., 608 Madison Ave., Toledo 3, Ohio.
Pittsburgh Plate Glass Co., 1 Gateway Center, Pittsburgh 22, Pa.
Protecto Safety Glass Co., 82-04 Cooper Ave., Brooklyn 27, N. Y.
Safetee Glass Co., 4717 Stenton Ave., Philadelphia 44, Pa. (Also bullet resisting.)
Shatterproof Glass Co., 4815 Cabot Ave., Detroit 10, Mich.

### GOVERNORS, Engine

Electric Auto-Lite Co., Toledo 1, Ohio.
Holley Carburetor Co., 11955 E. Nine Mile Rd., Van Dyke, Mich.
Hoot Products Co., 6543 S. Laramie Ave., Chicago 38, Ill. (Velocity & mechanical.)
King-Seeley Corp., 315 S. Firth St., Ann Arbor, Mich.
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich. (Combination governor and distributor.)
Minnesota Automotive Inc., 1101 N. Front St., Mankato, Minn.
Monarch Governor Co., 2800 Tyler Rd., Willow Run, Mich.
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.
Pierce Governor Co., 1625 Ohio Ave., Anderson, Ind.
Safety Speed Control Co., 7800 N. E. Fourth Court, Miami 38, Fla. (For trucks, buses and taxicabs.)
Woodward Governor Co., 5001 N. 2nd St., Rockford, Ill. (Truck & bus.)
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. (Combination carburetor and governor.)

### GRADERS (Construction and Off-Highway)

Allis-Chalmers Manufacturing Co., Box 512, Milwaukee 1, Wis.
Austin Western Works, Construction Equipment Div., Baldwin-Lima-Hamilton Corp., 601 Farnsworth Ave., Aurora, Ill.
Caterpillar Tractor Co., Peoria, Zone 8, Ill.
Huber-Warco Co., 202 N. Greenwood St., Marion, Ohio.
LeTourneau-Westinghouse Co., Peoria, Ill.
Pettibone Mulliken Corp., 4700 W. Division St., Chicago 51, Ill.
Preco Inc., 6300 E. Slauson Ave., Los Angeles 22, Calif.

### GRAPHITE, Lubricating

A P Parts Corp., A P Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio.
Acheson Colloids Co., 1925 Washington Ave., Port Huron, Mich.
Boyle-Midway Inc., 22 E. 40th St., New York, N. Y.
Bush & Co., A. G., 6138 Northwest Hwy., Chicago 31, Ill.
Dixon Crucible Co., Joseph, Monmouth & Wayne Sts., Jersey City 3, N. J.
Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
Hill & Griffith Co., 1262 State St., Cincinnati 4, Ohio.
M-M-A Inc., Coho Bldg., Lancaster, Pa.
Panef Mfg. Co., 102 E. Walnut St., Milwaukee 1 Wis.
Pettinois Inc., George F., 1206 Locust St., Philadelphia 7, Pa.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.
Superior Graphite Co., 1531 First National Bank Bldg., Chicago 3, Ill.
United States Graphite Co., 1621 Holland Ave., Saginaw, Mich.

**GREASE, CHASSIS, See Oils and Lubricants**
**GREASE GUNS, HAND, See Lubricators, Hand**
**GREASE GUNS, PUMPS, CABINETS AND BUCKETS, HIGH PRESSURE, See Lubricators, Portable, High Pressure**
**GREASE RETAINERS, See Retainers, Oil and Grease**

### GRILLES, Radiator

Ainsworth-Precision Castings Co., Div. of Harsco Corp., 3200 Guardian Bldg., Detroit 26, Mich.
Automotive Grille Co., 2111 S. Michigan St., Chicago, Ill.
Bustin Metal Products Co., Dover, N. J.
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
Detroit Grille Mfg. Co., 258 E. Vernor Highway, Detroit 1, Mich.
Doehler Die-Casting Co., 386 Fourth Ave., New York, N. Y.
Electric Auto-Lite Co., Toledo 1, Ohio.
Excel Corp., 1120 N. Main St., Elkhart, Ind
Jacobs Co., F. L., 1048 Spruce St., Detroit 1, Mich.
Mirro Aluminum Co., Manitowoc, Wis.
Saginaw Industries Co., 2119 S. Jefferson Ave., Saginaw, Mich. (For Ford and Chevrolet.)
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
Zenite Metal Corp., 201 N. West St., Indianapolis 7, Ind.

### GRILLES, Rolling, for Doorways

Kinnear Mfg. Co., 2100-20 Fields Ave., Columbus 16, Ohio.

### GRINDERS, Bench

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Atlas Press Co., 1842 N. Pitcher St., Kalamazoo, Mich.
Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Blount Co., J. G., 10 Woodland St., Everett 49, Mass.
Bradford Machine Tool Co., 722 Porter St., Lansing 5, Mich.
Cincinnati Electrical Tool Co., 300 Mt. Hope Ave., Cincinnati 4, Ohio.
Dumore Co., 1300 17th St., Racine, Wis.
Hammond Machinery Builders, Inc., 1621 Douglas Ave., Kalamazoo 54, Mich.
Hisey-Wolf Machine Co., Div. Cincinnati Electrical Tool Co., Galvin & Mt. Hope Aves., Cincinnati 4, Ohio.
Lima Electric Motor Co., Findlay Rd., Lima, Ohio.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.
Portable Electric Tools, Inc., 320 W. 83 St., Chicago 20, Ill.
Prosser & Son, Thomas, Felter Bldg., Tenafly, N. J.
Remington Arms Co., 939 Barnum Ave., Bridgeport 2, Conn.
Richards Co., J. A., 903 N. Pitcher St., Kalamazoo 60F, Mich.
Rockwell Mfg. Co., Delta Power Div., 400 N. Lexington Ave., Pittsburgh 8, Pa.
Schauer Machine Co., 4500 Alpine Ave., Rossmoyne, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Skil Corp., 5033 Elston Ave., Chicago, Ill.
SpeedWay Mfg. Co., 1421 Barnsdale Rd., La Grange Park, Ill.
Standard Electrical Tool Co., Mt. Hope & River Rd., Cincinnati 4, Ohio.
Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.
United States Electrical Tool Co., 3620 Llewelyn St., Cincinnati 23, Ohio.
Valley Electric Corp., 4221 Forest Park Blvd., St. Louis, Mo.
Walker-Turner Div., Rockwell Mfg. Co., 400 N. Lexington Ave., Pittsburgh 8, Pa.
Wickman Mfg. Co., 10325 Capital Ave., Oak Park, Detroit 37, Mich. (Carbide.)
Wilson, Inc., K. R., Arcade, N. Y.
Wissota Mfg. Co., 1301 S. 3rd St., Minneapolis, Minn.

### GRINDERS, Brake Drum

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Norman Co., 3640 Main St., Springfield 7, Mass.

### GRINDERS, Brake Lining and Shoe

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Grinders.)
Evans Reamer & Machine Co., New Lexington, Ohio.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 47, Calif. (Combination brake lining and brake shoe grinding.)
Wilder Co., M. B., 2024 St. Mary's Ave., Omaha 2, Nebr. (Also combination countersinking, riveting and grinding machine.)
Wilson, Inc., K. R., Arcade, N. Y.

### GRINDERS, Crankshaft

Evans Reamer & Machine Co., New Lexington, Ohio.
Landis Tool Co., Sixth & Ringold Sts., Waynesboro, Pa.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Portable.)
Norton Co., 1 New Bond St., Worcester 6, Mass.
Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo. (Attachment.)
Van Norman Co., 3640 Main St., Springfield 7, Mass.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Portable.)
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn.

### GRINDERS, Cylinder

Heald Machine Co., 14 New Bond St., Worcester 6, Mass.
Landis Tool Co., Sixth & Ringold Sts., Waynesboro, Pa.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.

### GRINDERS, Drill

Black Diamond Saw & Machine Works, 81 North Ave., Natick, Mass.
Consolidated Machine Tool Corp., Winton & Blossom Rd., Rochester 10, N. Y.
Covel Mfg. Co., Graham Ave., Benton Harbor, Mich.
Dunmore Co., 1300 17th St., Racine, Wis.
Hisey-Wolf Machine Co., Div. Smith & Mills Co., 2889 Spring Grove Ave., Cincinnati 25, Ohio.

### GRINDERS—continued

La Salle Tool Co., 507 W. Washington St., Chicago 8, Ill.
McDonough Mfg. Co. (Machine Tool Dept.), Eau Claire, Wis.
Oliver Instrument Co., 1410 E. Maumee St., Adrian, Mich.
Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.
Rockwell Mfg. Co., Delta Power Tool Div., 400 N. Lexington Ave., Pittsburgh 8, Pa.

### GRINDERS, Engine Head and Block

(Advertisers Only)

Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Van Norman Automotive Equipment Co., Springfield 7, Mass.

### GRINDERS, Piston Ring

Arter Grinding Machine Co., 15 Sagamore Rd., Worcester 5, Mass.
Heald Machine Co., 14 New Bond St., Worcester 6, Mass.
Lehman Machine Co., 3560 Chouteau Ave., St. Louis 3, Mo.

### GRINDERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Buckeye Tools Corp., 5005 Springboard Pike, Dayton 9, Ohio. (P. O. Box 966.)
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Chicago Wheel & Mfg. Co., 1101 W. Monroe St., Chicago 7, Ill.
Dremel Mfg. Co., 2420 18th St., Racine, Wis.
Dumore Co., 1300 17th St., Racine, Wis.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee, Wis.
Precise Products Corp., 3715 Blue Ribbon Rd., Racine, Wis.
Rotor Tool Co., 23600 Lakeland Ave., Cleveland 32, Ohio.
Skil Corp., 5033 Elston Ave., Chicago, Ill.
SpeedWay Mfg. Co., 1421 Barnsdale Rd., La Grange Park, Ill.
Stanley Electric Tools Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.
United States Electrical Tool Co., 1050 Findley St., Cincinnati 14, Ohio.

### GRINDERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.
Madison-Kipp Corp., 201 Waubesa St., Madison, Wis.
Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio.
Onsrud Machine Works, Inc., Machine Tool Div., 7720 N. Lehigh Ave., Niles, Ill.
Rotor Tool Co., 23600 Lakeland Ave., Cleveland 32, Ohio.
Skil Corp., 5033 Elston Ave., Chicago 30, Ill.
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.

### GRINDERS, Valve Seat, Portable, Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Cedar Rapids Engineering Co., 902 17th St., N. E., Cedar Rapids 1, Iowa.
Hall-Toledo Inc., 2931 South Ave., Toledo 9, Ohio.
Lee Co., K. O., Congress at First Ave., S.E. Aberdeen, S. D.
Skil Corp., 5033 Elston Ave., Chicago 30, Ill.
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.
United States Electrical Tool Co., 3620 Llewelyn St., Cincinnati 23, Ohio.
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn.

### GRIT, Vehicle Traction

Reed Corp., H. B., 91 Passaic St., Passaic, N. J.

### GUARDS, Bumper

Brown-Lipe-Chapin, Div. General Motors Corp., Town Line Rd., Syracuse, N. Y.
Campbell Co., A. S., 161 Prescott St., East Boston 28, Mass.
Eaton Mfg. Co., Stamping Div., 17877 St. Clair Ave., Cleveland 10, Ohio.
Gem Mfg. Co., 2535 S. State St., Chicago 16, Ill.
Hamlin Metal Products Co., 2741 Wingate Ave., Akron 19, Ohio.
Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Rheem Automotive Co., 601 S. Placentia Ave., Fullerton, Calif.

### GUARDS, Radiator, Grille and Fender

American Forging & Socket Co., P. O. Box 123, Pontiac, Mich. (Radiator Grille.)
Bustin Steel Products, Inc., Dover, N. J. (Truck radiator.)
Calco Steel Products Co., 23-29 New England Ave., Dorchester 24, Mass. (Grille.)
Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y. (Radiator grille to order.)
Gichner Iron Works, Inc., Fred S., 1214-24th St., N. W., Washington 7, D. C.
Hamlin Metal Products Co., 2741 Wingate Ave., Akron 19, Ohio. (Radiator grille.)
Helms Industrial Development Co., 220 S. Kirk St., West Lafayette, Ohio.
Hutchinson Co., 5931 St. Vincents Ave., Shreveport, La.
Western Metal Specialty Div., Western Industries Inc., 1213 N. 62nd St., Milwaukee 13, Wis.
Youngstown Kitchens, Div. of American-Standard, 605 S. Ellsworth St., Salem, Ohio. (Truck and tractor.)

### GUARDS, Splash

Ace Rubber Products Inc., 100 Beech St., Akron, Ohio.
Acme Rubber Mfg. Co., 115 Meade St., Trenton, N. J. (Also 3320 S. Main St., Los Angles 7, Calif.)
American Mat Corp., 2327 Adams St., Toledo 2, Ohio. (Retail trade.)
Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio.
Bermo Industries, Inc., 216 W. 86th St., Minneapolis, Minn.
Better Monkey Grip Co., 5320 Harry Hines Blvd., Dallas 22, Tex. (Truck; Sole distributors, Monkey Grip Sales Co., 5370 Harry Hines Blvd., Dallas 2, Tex.)
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
Buxbaum Co., 1212 7 St., S.W., Canton 1, Ohio.
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Contour Truck Guards, Inc., 38 S. Dearborn St., Chicago 3, Ill.
Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex.
Doan Mfg. Div. of Anchor Industries Inc., 1725 London Rd., Cleveland 12, Ohio.
Fargo Rubber Corp., 137 E. 58 St., Los Angeles 11, Calif.
Franklin Industries, Box 44, Acton, Ind.
Gar Wood Industries, Wayne, Mich.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Globe Rubber Products Co., 3333 N. Lawrence St., Philadelphia 40, Pa.
Goodrich Co., B. F., Industrial Prods. Div., 500 S. Main St., Akron 18, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.
Lee Rubber & Tire Corp., Conshohocken, Pa.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Moore Co., D. W., 2018 Adams St., Toledo 2, Ohio. (Wholesale trade.)
Randall Co., 5000 Spring Grove Ave., Cincinnati 32, Ohio.
Regal Motor Products, Inc., 6324 Grand River Ave., Detroit 8, Mich.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Tingley Rubber Corp., 903 Ross St., Rahway, N. J.

### GUARDS, Tire Inflating

Belmont Body Builders, 175 Belmont Ave., Newark 3, N. J.
Branick Mfg. Co., 2600 Third Ave., N., Fargo, N. D.
Kirspel Industries, Inc., Livingston, N. J.

### GUIDES, Valve

Accurate Products, Inc., 135 N. Spring St., Indianapolis, Ind.
Aero Mfg. & Machinery Co., 2724 Ninth St., Muskegon Heights, Mich.
Aluminum Industries, Inc., 3670 Werk Rd., Cincinnati 11, Ohio.
American Auto Parts Co., 919 Bonham Ave., Columbus 3, Ohio.
Beckett Bronze Co., 20th & S. Walnut Sts., Muncie, Ind. (Bronze.)
Burd Piston Ring Co., Box 567, Eau Claire, Wis.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind.
Ertel Products Co., Repl. Div. of Ertel Mfg. Corp., 1402 E. 20th St., Indianapolis, Ind.
Hub City Iron Co., 218 First Ave., S. W., Aberdeen, S. D.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
Rich Mfg. Corp., 96 N. Division St., Battle Creek, Mich.
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.
Standard Automotive Parts Co., 660 Nims St., Muskegon, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Div. Thompson Products, Inc., 6402 Cedar Rd., Cleveland 3, Ohio.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.
Wolverine Gear & Parts Co., Osseo, Mich.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

### HAMMERS, Pneumatic

Chambersburg Engineering Co., Derbyshire St., Chambersburg, Pa.
Erie Foundry Co., 1253 W. 12th St., Erie, Pa.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.
Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio. (Portable.)
Mead Specialties Co., 4114 N. Knox Ave., Chicago 14, Ill.
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.
United Engrg. & Fdry. Co., Wilmington Plant, P. O. Box 1108, Wilmington 99, Del.
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.
Williams, White & Co., 100 Eighth St., Moline, Ill.

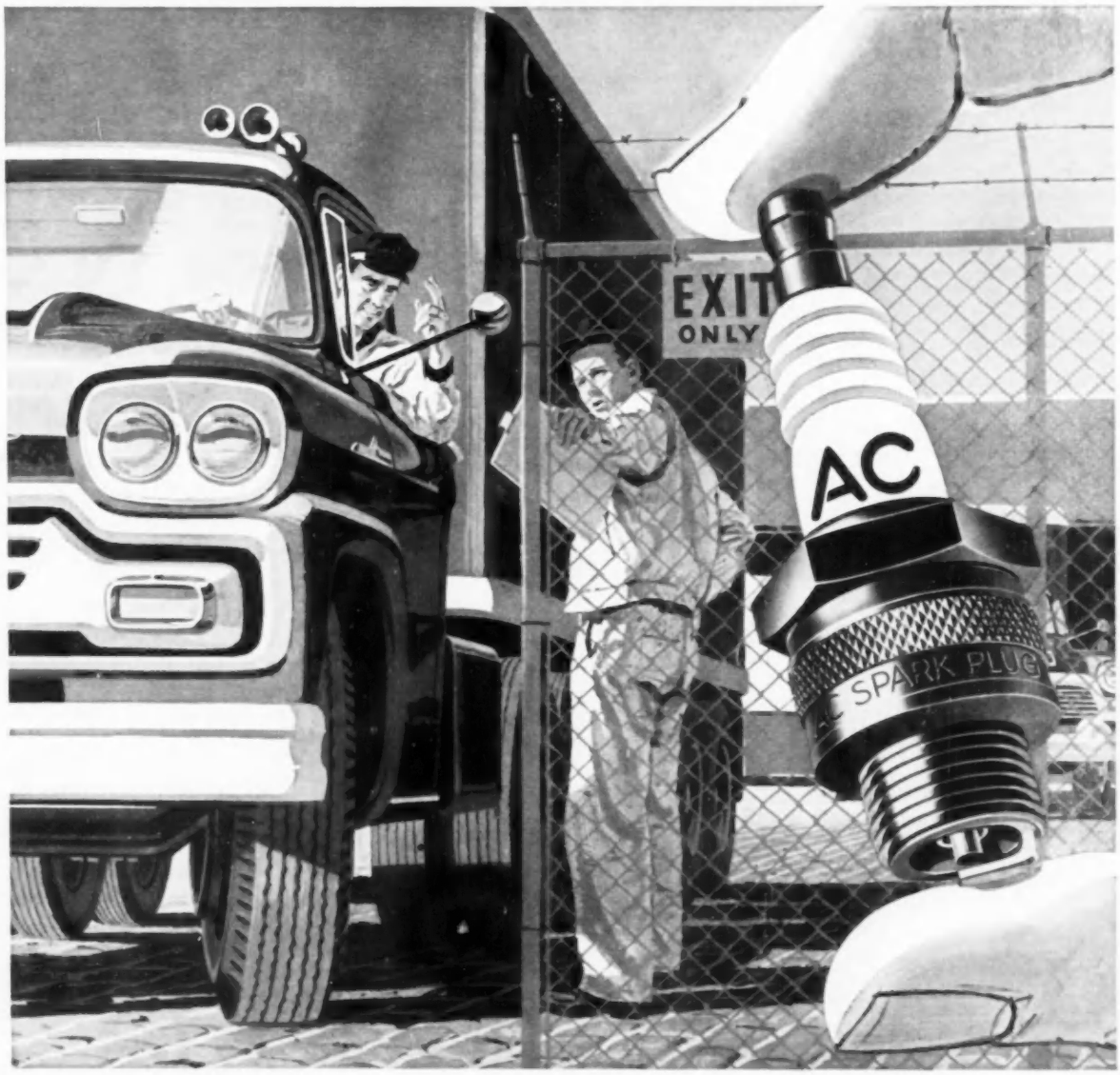
### HAMMERS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.
Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
Syntron Co., 495 N. Lexington Ave., Homer City, Pa.
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.

### HARDWARE, Bus

Attwood Brass Works, Inc., 303 Douglas St., N.W., Grand Rapids, Mich.
Bath Co., Cyril, 32280 Aurora Rd., Solon, Ohio.
Moore & Co., Samuel, Mantua, Ohio. (Stanchions and grab rails.)
Tompkins, H. S., 188 Chambers St., New York 7, N. Y.
Troy Sunshade Co., Troy, Ohio. (Stanchions and grab rails.)

# Off to a Good Start!

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### HARDWARE, Truck Body

Adams & Westlake Co., 1019 N. Michigan St., Elkhart, Ind. (Auto, truck & bus.)
American Forging & Socket Co., P. O. Box 120, Pontiac, Mich. (Hood locks, etc.)
Attwood Brass Works, Inc., 303 Douglas St., N.W., Grand Rapids, Mich. (Funeral car, taxicab and trailer.)
Atwood Vacuum Machine Co., 1400 Eddy Ave., Rockford, Ill. (Including locks & hinges.)
Auto Vehicle Parts Co., 1032 Saratoga St., Newport 6, Ky.
Binkley Mfg. Co., Warrenton, Mo. (Hinges, brackets, etc.)
Bordner Mfg. Co., 101 S. Louis Ave., Freeport, Ill. (Refrigerator truck.)
Bowen Products Corp., Auburn, N. Y.
Chicago Lock Co., 2024 N. Racine Ave., Chicago 14, Ill. (Hood locks.)
Cinch Mfg. Co., 1026 S. Homan St., Chicago 24, Ill.
Croneame Inc., 6217 Howard St., Chicago 48, Ill. (Decorative trim.)
Decker Co., Richard M., 919 N. Michigan Ave., Chicago, Ill. (Door latches.)
Detroit Harvester Co. Dura Div., 4500 Detroit Ave., Toledo, Ohio.
Detroit Master Products Co., 16490 Woodward Ave., Detroit 3, Mich.
Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., 2734 Tennyson Rd., Cleveland 4, Ohio.
Electric Auto-Lite Co., Toledo 1, Ohio.
Ferro Stamping Co., 1367 Franklin St., Detroit 7, Mich.
Hansen Mfg. Co., A. L., 5037 Ravenswood Ave., Chicago 40, Ill. (Commercial body and bus.)
Hartwell Aviation Supply Co., 9035 Venice Blvd., Los Angeles 31, Calif.
Jacob Co., F. L., 1043 Spruce St., Detroit 32, Mich.
Kason Hardware Corp., 71 Wallabout St., Brooklyn 11, N. Y.
Kneuer Tail Board Co., 45 Sea Girt Ave., Manasquan, N. J. (Spaceless tailboard hardware.)
Metal Craft Co., 3300 Doris Ave., Detroit 6, Mich.
Miner, Inc., W. H., 209 S. La Salle St., Chicago 4, Ill. (Door fasteners for truck and trailer bodies.)
Polar Hardware Mfg. Co., 3822 Lawrence Ave., Chicago 25, Ill. (For refrigerated trucks & trailers.)
Porter Co., H. K., Forge & Fittings Div., Cleveland Forge Works, 3200 E. 79th St., Cleveland 4, Ohio.
Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill. (Fuel tank fittings.)
Queen City Forging Co., Tennyson & Dumont Sts., Cincinnati 26, Ohio.
Rockford Metal Products, Inc., 716 Cedar St., Rockford, Ill.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio. (Fender braces.)
Soss Mfg. Co., 21777 Hoover Rd., Detroit 13, Mich.
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
Stanley Works (Pressed Metal Div.), 195 Lake St., New Britain, Conn.
Stant Mfg. Co., 1620 Columbia St., Connersville, Ind.
Ternstedt Div. General Motors Corp., 6307 W. Fort St., Detroit 9, Mich.
Tompkins, H. S., 188 Chambers St., New York 7, N. Y.
Wagner Mfg. Co., 122 W. First St., Cedar Falls, Iowa. (Truck body irons, brackets and hinges.)
Yale & Towne Mfg. Co., 200 Henry St., Stamford, Conn.

**HEADLIGHT FOCUSING INSTRUMENTS, See Testers, Headlight**

### HEATERS, Bus

Arvin Industries, Inc., 13th St. & Big Four R. R., Columbus, Ind. (Hot water and hot air.)
Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill. (Hot water.)
Evans Products Co., Heating and Ventilating Div., 13101 Eckles Rd., Plymouth, Mich. (Hot water.)
Hunter Mfg. Co., 30525 Aurora Rd., Salon, Ohio. (Gasoline burning.)
Huppower Div., Hupp Corp., 7450 Melville St., Detroit 17, Mich.
Kysor Heater Co., Haynes St., Cadillac, Mich. (Hot water.)
Preco, Inc., 6300 E. Slauson Ave., Los Angeles 22, Cal.
Surface Combustion Corp., Janitrol Aircraft-Automotive Div., 400 Dublin Ave., Columbus, Ohio.
Thermo King Corp., 44 S. 12th St., Minneapolis 3, Minn.
Truck & Coach Heater Mfg. Co., 2465 W. Davison, Detroit 38, Mich.
Vapor Heating Corp., 80 E. Jackson Boulevard, Chicago 4, Ill.

### HEATERS, Cargo

American Gas Machine Co. Div. of Queen Stove Works, 505 Front St., Albert Lea, Minn. (Automatic bottled gas, for trucks and buses.)
Anchor Post Products, Inc., 6500 Eastern Ave., Baltimore 24, Md.
Auto Body Works, Pierce Ave. & 8th St., Appleton, Wis. (Exhaust.)
Cargo Guard, Inc., P. O. Box 1977, Thompson's Point, Portland 2, Me. (LP-Gas.)
Elston Co., Rue R, 2397 University Ave., St. Paul 14, Minn. (LP gas.) (Manufactured by Crenlo, Inc., Rochester, Minn.)
Evans Products Co., Heating and Ventilating Div., 13101 Eckles Rd., Plymouth, Mich.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich. (Self-powered unit for trailers.)
Hunter Mfg. Co., 1550 E. 17th St., Cleveland 14, Ohio.
Knowles-Fisher Corp., Gowanda, N. Y. (Charcoal burning.)
Laharco Industries, Inc., 721 Second Ave., N., Minneapolis 3, Minn.
Luminator, Inc., 120 N. Peoria St., Chicago 80, Ill.
Preco, Inc., 6300 E. Slauson, Los Angeles 22, Calif.
Stewart-Warner Corp., South Wind Div., 1514 Drover St., Indianapolis 7, Ind. (Gasoline burning.)
Thermo King Corp., 44 S. 12th St., Minneapolis 3, Minn.
Truck & Coach Heater Mfg. Co., 2465 W. Davison, Detroit 38, Mich.
Vapor Heating Corp., 80 E. Jackson Boulevard, Chicago 4, Ill.

### HEATERS, Engine Pre-Heating

Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Parking lot heater.)
Five Star Mfg. Co., Box 149, Clarksdale, Miss. (Electric.)
Kim Hotstart Mfg. Co., 917 W. Broadway, Spokane 1, Wash. (Electric.)
Laharco Industries, Inc., 721 Second Ave., N., Minneapolis 5, Minn.
Perfection Industries, Inc., Div. of Hupp Corp., 1135 Ivanhoe Rd., Cleveland 10, Ohio. (Oil and gasoline burning.)
Phillips Mfg. Co., 2816 Aldrich Ave. S., Minneapolis 8, Minn. (Headbolt, hose and dipstick and external tank types.)
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio.
Stewart-Warner Corp., South Wind Div., 1514 Drover St., Indianapolis 7, Ind.
Stow Mfg. Co., 443 State St., Binghamton, N. Y.
Tech Products, Inc., 615 Pennsylvania Ave., Elizabeth, N. J.
Universal Engine Heater Co., W 22 Mansfield St., Spokane 21, Wash. (Gas, Diesel & electric.)
Vapor Heating Corp., 80 E. Jackson Boulevard, Chicago 4, Ill. (Parking lot heater.)

### HEATERS, Paint, Hot Spray

Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio.
Binks Mfg. Co., 314 Carroll Ave., Chicago 12, Ill.
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
Dualheet, Inc., 3350 W. 137th St., Cleveland 11, Ohio.
Nordson Corp., Jackson St., Amherst, Ohio.
Pol-Flo Paint Sprayer Corp., 1412-16th St., Sacramento, Calif.
Spee-Flo Mfg. Corp., 720 Polk Ave., Houston 2, Tex.
Thermalcup, Inc., 3550 W. 137th St., Cleveland 11, Ohio.

### HEATERS, Truck Cab

Arvin Industries, Inc., 13th St. & Big Four R. R., Columbus, Ind. (Hot water.)
Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill.
Bishop & Babcock Mfg. Co., 4901 Hamilton Ave. N.E., Cleveland 14, Ohio. (Hot water.)
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. (Hot water.)
Eaton Mfg. Co., Heater Div., E. 65th St. & Central Ave., Cleveland, Ohio. (Hot water.)
Evans Products Co., Heating & Ventilating Div., 13101 Eckles Rd., Plymouth, Mich. (Hot water.)
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y. (Hot water.)
Hunter Mfg. Co., 30525 Aurora Rd., Salon, Ohio.
Huppower Div., Hupp Corp., 7450 Melville St., Detroit 17, Mich.
Kysor Heater Co., Haynes St., Cadillac, Mich. (Hot water.)
Novi Equipment Co., Novi, Mich. (Hot water.)
Schofield, Inc., E. L., 2230 Seventh Ave., Rockford, Ill. (Hot water.)
Stewart-Warner Corp., South Wind Div., 1514 Drover St., Indianapolis 7, Ind. (Gasoline burning.)
Surface Combustion Corp., Janitrol Aircraft-Automotive Div., 400 Dublin Ave., Columbus, Ohio.
Truck & Coach Heater Mfg. Co., 2465 W. Davison, Detroit 38, Mich. (Hot water for trucks & buses.)

**HILL HOLDERS, See Locks, Brake, Hill Holding**
**HITCHES, TRAILER, See Couplers, Trailer**

### HOISTS, Chain or Cable

(See also Cranes, Portable)

Chester Hoist Div., National Screw & Mfg. Co., Lisbon, Ohio.
Chisholm-Moore Hoist Corp. (Div. Columbus McKinnon Chain Corp.), Fremont Ave., Tonawanda, N. Y.
Cleveland Crane & Engineering Co., 5866 E. 283rd St., Wickliffe, Ohio.
Coffing Hoist Div., Duff Norton Co., 800 Walter St., Danville, Ill.
Ford Chain Block Div. of American Chain & Cable Co., Bridgeport, Conn.
Harrington Co., Gravers Rd. at Turnpike, Plymouth Meeting, Pa.
Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass.
Manley Div., American Chain & Cable Co., York, Pa.
National Screw & Mfg. Co., Chester Hoist Div., Lisbon, Ohio.
Ohio Hoist & Mfg. Co., 321 S. Beaver St., Lisbon, Ohio.
Reading Crane & Hoist Corp., 2140 Adams St., Reading, Pa.
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio.
Roeper Crane & Hoist Works, 1720 N. Tenth St., Reading, Pa.
Round & Son, David, Box 883, Cleveland 22, Ohio.
Speidel Elevator Corp., W. Buttonwood & Gordon Sts., Reading, Pa.
Wright Hoist Div. of American Chain & Cable Co., York, Pa.
Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Blvd., Phila. 15, Pa.

### HOISTS, Electric

(See also Blocks or Hoists, Chain)

American Engineering Co., Wheatsheaf Lane & Sepviva St., Philadelphia 37, Pa.
Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.
Chester Hoist Div., National Screw & Mfg. Co., Lisbon, Ohio.
Chisholm-Moore Hoist (Div. Columbus McKinnon Chain Corp.) Fremont Ave., Tonawanda, N. Y.
Cleveland Crane & Engineering Co., 5866 E. 283rd St., Wickliffe, Ohio.
Coffing Hoist Div., Duff-Norton Co., 800 Walter St., Danville, Ill.
Conco Engineering Works, Div. of H. D. Conkey & Co., Mendota, Ill.
Detroit Hoist & Machine Co., 8216 Morrow St., Detroit 11, Mich.
Electro Lift, Inc., 204 Sergeant Ave., Clifton, N. J.
Ford Chain Block Div. of American Chain & Cable Co., Bridgeport, Conn.
Harnischfeger Corp., Industrial Div., Dept. 207 L., Milwaukee 46, Wis.
Harrington Co., Gravers Rd. at Turnpike, Plymouth Meeting, Pa.

Manning, Maxwell & Moore, Inc., Shaw Box Crane & Hoist Div., Park & Broadway, Muskegon, Mich.
Northern Engineering Works, 210 Chene St., Detroit 7, Mich.
Ohio Hoist Mfg. Co., 321 S. Beaver St., Lisbon, Ohio.
Reading Crane & Hoist Corp., 2140 Adams St., Reading, Pa.
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio.
Round & Son, David, Box 883, Cleveland 22, Ohio.
Sasgen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill.
Shepard Niles Crane & Hoist Corp., Montour Falls, N. Y.
Thomas Hoist Co., 20 S. Hoyne Ave., Chicago 12, Ill.
Wright Hoist Div. of American Chain & Cable Co., York, Pa.
Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Blvd., Phila. 15, Pa.

**HOISTS, MONORAIL, See Cranes, Monorail**

### HOISTS, Pneumatic

Aro Equipment Corp., Bryon, Ohio.
Curtis Mfg. Co., Pneumatic Div., 1927 Keinlen Ave., St. Louis 20, Mo.
Detroit Hoist & Machine Co., 8216 Morrow St., Detroit 11, Mich.
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.
Northern Engineering Works, 2615 Atwater St., Detroit 7, Mich.
Platz Co., 20433 Sherwood Ave., Detroit 34, Mich.
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.

**HOISTS, PORTABLE, See Cranes, Portable**

### HOISTS, Truck Body

Anthony Co., Streator, Ill. (Hydraulic.)
Cemco Industries, Inc., Galion, Ohio.
Converto Mfg. Co., 3rd & Green Sts., Cambridge City, Ind.
Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 65, Calif.
Cresci & Son, Inc., Boulevard & Grape Sts., Vineland, N. J.
Daybrook Hydraulic Div., Young Spring & Wire Corp., Bowling Green, Ohio.
Gar Wood Industries, Inc., Wayne, Mich.
General Body & Hoist Co., Paris & Garvey Sts., Everett 49, Mass.
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis. (Hydraulic.)
Hercules Galion Products, Inc., Galion, Ohio.
Ingersoll Kalamazoo Div. Borg-Warner Corp., 1810 N. Pitcher St., Kalamazoo, Mich. (For detachable container bodies.)
Little Giant Products, Inc., 1530 N. Adams St., Peoria 2, Ill. (Hands.)
Lundell Mfg. Co., Cherokee, Iowa.
Manning, Maxwell & Moore, Inc., Shaw Box Crane & Hoist Div., Park & Broadway, Muskegon, Mich.
Marion Metal Products Co., Cheney Ave., Marion, Ohio. (Hydraulic.)
Minneapolis Freeman Mfg. Co., 5610 W. 36th St., Minneapolis 16, Minn.
Omaha Standard, 2401 W. Broadway, Council Bluffs, Iowa. (Hydraulic.)
Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn, Pa.
Perfection Steel Body Co., S. East St., Galion, Ohio. (Hydraulic.)
Schwartz Mfg. Co., Lester Prairie, Minn. (Also ramp hoist.)
Truck Engrg. Co., 3200 E. Pontiac St., Fort Wayne 4, Ind.
Weston Dump Body Co., 326 W. 11th St., Des Moines 9, Iowa.
Wisconsin Hydraulics Inc., 3165 N. 30th St., Milwaukee 16, Wis.

**HOISTS, VEHICLE LIFTING, See Lifts, Vehicle**

### HOLDERS, Air Brake Hose

Columbus Industries, P. O. Box 362, Columbus, Ind. (Power brake-trailers.)
Edward's Air Hose Bracket Co., P. O. Box 860, Sapulpa, Okla.
Vari-Products Company, 2450 S. Prairie Ave., Chicago 16, Ill.

### HOLDERS, Electrode

Chicago Tool & Engrg. Co., 8383 South Chicago Ave., Chicago, Ill.
Lincoln Electric Co., 22801 St. Clair Ave., Cleveland 17, Ohio.
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind. (Resistance.)
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Miller Electric Mfg. Co., 718 S. Bounds St., Appleton, Wis.
Tolman Mfg. Co., 19 W. Third St. (South Boston), Boston 27, Mass.
Tweco Products Co., Boston at Mosley Sts., Wichita 1, Kan.
US Electric Welder Corp., 1258 Dorr St., Toledo 7, Ohio.

**HOLDERS, LOAD, See Load Binders**

### HONES, Cylinder

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill. (Engine and brake.)
Barnes Drill Co., 826 Chestnut St., Rockford, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Hydraulic and brake drum.)
Clark-Feather Mfg. Co., 116 W. Railroad Ave., Ft. Morgan, Colo.
Hall-Toledo Inc., 2931 S. Avenue, Toledo 9, Ohio.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Micromatic Hone Corp., 8100 Schoolcraft Ave., Detroit 38, Mich.
Moline Tool Co., 102 20th St., Moline, Ill.
Snap-on Tools Corp., 8046 28th Ave., Kenosha, Wis. (Brake.)
Staple Engrg. Co., 1315 S. Woodward Ave., Birmingham, Mich.
Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Tex.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
Van Norman Automotive Equip. Co., 3640 Main St., Springfield 7, Mass.
Wilco Products, Inc., 595 Valley St., Orange, N. J. (Hydraulic brake.)
Wilson, Inc., E. R., Arcade, N. Y.

### HONES, Small Bore

(For piston pins, brake cylinders, bushings, etc.)

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa. (Brake cylinder, piston pin and ring pin bushings.)
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich. (Brake cylinder.)
Dow Mechanical Corp., Thompsonville, Conn.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. (Brake cylinder.)
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich. (Piston pin.)
Keystone Reamer & Tool Co., Millersburg, Pa. (Piston pin.)
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade Lempco Automotive Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Lisle Corp., 809 E. Main St., Clarinda, Iowa. (Brake cylinder and piston pin.)
Micromatic Hone Corp., 8100 Schoolcraft Ave., Detroit 38, Mich.
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn. (Brake cylinder.)
Precision Hone Co., 8618 Dearborn St., Detroit 17, Mich. (Piston pin, brake cylinder, bushing, etc.)
Reasor Mfg. Co., 13th & Indiana Ave., St Charles, Ill.
Staple Engineering Co., 1315 S. Woodward Ave., Birmingham, Mich.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo. (Piston pin.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

### HOOKS, Towing

Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Cleveland Hardware & Forging Co., 3200 E 79th St., Cleveland 4, Ohio.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis.
Holland Hitch Co., 430 W. 18th St., Holland, Mich.

**HORN RELAYS, See Relays, Horn and Light**

### HORNS, Air

Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Buell Mfg. Co., 919 W. 49th Pl., Chicago 9, Ill.
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
Grover Products Co., 1221 S. Hope St., Los Angeles 15, Calif.
Kahlenberg Bros. Co., 1200 Monroe St., Two Rivers, Wis.
Sparton Automotive Div. of Sparton Corp., Jackson, Mich.
Wagner Electric Corp., 6470 Plymouth Ave., St. Louis 14, Mo.

### HORNS, Electric

Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.
Edwards Co., Norwalk, Conn.
Electric Auto-Lite Co., Toledo 1, Ohio.
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb.
Sparton Automotive Div., Sparton Corp., Jackson, Mich.
Yoder Mfg. Co., 1823 E. 17th St., Little Rock, Ark. (Wolf.)

### HORNS, Siren

(For ambulances, police and fire department apparatus)

American-La France-Foamite Corp., 100 E. La France St., Elmira, N. Y.
Federal Sign & Signal Corp., 8765 S. State St., Chicago, Ill. (Also combination siren and warning light for emergency and military vehicles.)
Pyle-National Co., 1334 N. Kastner Ave., Chicago 51, Ill.
Sireno Co., 214 William St., N. Y. 7, N. Y.
Sterling Siren Fire Alarm Co., 8 Bartlett St., Rochester 8, N. Y. (Electric.)

### HORNS, Vacuum Operated

Grover Products Co., 1221 S. Hope St., Los Angeles 15, Calif.
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.
Yoder Mfg. Co., 1823 E. 17th St., Little Rock, Ark. (Wolf, bulb type.)

**HORSES and TRESTLES, See Stands, Adjustable**

### HOSE, Air Brake

Acme Rubber Mfg. Co., 115 Meade St., Trenton, N. J.
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Anchor Coupling Co., 342 N. 4th St., Libertyville, Ill.
American Coupling Corp., 2335 Goodrich St., Ferndale 20, Mich.
Boston Woven Hose & Rubber Co., 29 Hampshire St., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)
Crown Products Co., 5722 S. 77th St., Ralston, Neb.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.
Hewitt-Robins, Inc., 666 Glenbrook Road, Stamford, Conn.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 48, Ill.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos-Manhattan Inc., Equipment Sales Div., Stratford, Conn.
Strataflex, Inc., 220 Roberts St., Cut-off, Fort Worth, Tex.
Thermoid Co., Heavy Duty Div., Whitehead Rd., Trenton 6, N. J.
Velvac, Inc., 3534 W. Pierce St., Milwaukee 15, Wis.
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

### HOSE, Air, Tire Inflating, Rubber and Fabric

Acme Air Appliance Co., 205 Newman St., Hackensack, N. J.

**Handling heavy loads with ease,** this Ford C-1000 used by the Green Bay Paper and Pulp Company (an affiliate of the Green Bay Box Co.) grosses 60,000 lb. It is equipped with 260-hp 477-cu. in. Super Duty V-8, Extra Heavy Duty 5-Speed transmission and 6.50 to 1 rear axle ratio.

# GO FORD-WARD for Savings, Style and Stamina!

Whatever your job . . . wherever you do it—you'll find Ford Heavies and Extra Heavies are engineered and built to do it better! And the '59 improvements in these models will bring still more benefits to your operation.

**Greater operating economy** with new, faster rear axle ratios and wide choice of transmissions.

**More efficient parking brake** of the internal expanding type has approximately 50% greater stopping and holding ability, requires less than half the operating effort needed for the previously used type.

**Higher payloads and longer life** with new, higher-capacity front and rear axle options.

**Factory installed tractor package** custom-fitted to Ford trucks for safer, more dependable braking.

Yes, the new '59 Ford trucks are here to take you *Ford*-ward for savings, *Ford*-ward for modern style and stamina. See your Ford Dealer today!

"Our records show that our average monthly parts cost, including major overhauls, has been reduced over 24%.

"Our Fords have given us less trouble than any other make of truck we've owned! Also, our Ford Dealer has always given us immediate and very good service. We've never had any downtime waiting for parts. They're always available at our Ford Dealer's, so we don't have the problem or expense of carrying a big parts inventory.

"Our drivers sure like the 'hillability' of the big Ford Tilts with their Super Duty V-8 engines! They say the 'Big V' has sure got it for power that seems to level out the steepest hills. And the Tilt Cabs are tops for maneuverability and riding ease.

"Performance plus economy . . . that's why we're sold on Ford trucks. We started using Fords when we opened our trucking department in 1954, and today 28 of our 35 trucks are Fords."

**New Styleside pickups!** Notice the handsome new grille, dual headlights, stronger wrap-around bumper. 6½-, 8- and 9-ft. boxes available in Styleside or Flareside models. Short Stroke Six or V-8 engines.

# FORD TRUCKS COST LESS

**LESS TO OWN . . . LESS TO RUN . . . LAST LONGER, TOO!**

### HOSE—continued

Acme Rubber Mfg. Co., 115 Meade St., Trenton, N. J.
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
Balcrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.
Boston Woven Hose & Rubber Co., 29 Hampshire St., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Crown Products Co., 5722 S. 77th St., Ralston, Nebr.
Dallas Mfg. & Sales Co., P. O. Box 7181, Dallas, Tex.
Dayton Rubber Co., 2342 Riverview Ave., Dayton, Ohio.
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 8, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.
Hewitt-Robins, Inc., 666 Glenbrook Road, Stamford, Conn.
Hite Mfg. Co., 1916 Dayton Blvd., North Chattanooga 5, Tenn.
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio.
Lincoln Engrg. Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
Metal Hose & Tubing Co., W. Clinton St., Dover, N. J.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Peters & Russell Inc., 501 W. Liberty St., Springfield 99, Ohio.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Ridbo Laboratories, Inc., 211 E. Harrison St., Danville, Ill.
Swan Rubber Co., 436 E. Mansfield St., Bucyrus, Ohio.
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

### HOSE, Gasoline

(See also Tubing, Gasoline & Oil Line)

Acme Rubber Mfg. Co., 115 Meade St., Trenton, N. J.
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Anchor Coupling Co., 342 N. 4th St., Libertyville, Ill.
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y. (Synthetic rubber.)
Boston Woven Hose & Rubber Co., 29 Hampshire St., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Electric Hose & Rubber Co., 12th & Dure Sts., Wilmington, Del.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodrich Industrial Products Co., B. F., 500 S. Main St., Akron 18, Ohio.
Hewitt-Robins, Inc., 666 Glenbrook Road, Stamford, Conn.
Metal Hose & Tubing Co., W. Clinton St., Dover, N. J.
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa.
Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J.
Republic Rubber, Div. of Lee Rubber & Tire Corp., Albert St., Youngstown 1, Ohio.
Resistoflex Corp., Woodland Rd., Roseland, N. Y.
Snyder & Son, Inc., M. L., 1827 E. York St., Philadelphia 25, Pa.
Titeflex, Inc., Hendee St., Springfield 4, Mass.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

### HOSE, Grease, High Pressure

Adams Grease Gun Corp., 88-92 N. First St., Brooklyn 11, N. Y.
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Anchor Coupling Co., 342 N. Fourth St., Libertyville, Ill.
Balcrank, Inc., Disney St. near Marburg, Cincinnati 9, Ohio.
Eastman Mfg. Co., 1440 N. 24th St., Manitowoc, Wis.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Gray Co., 54 11th Ave., N. E., Minneapolis 13, Minn.
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill.
Lincoln Engrg. Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Reda-Turner Mfg. Co., 311 Page Blvd., Springfield 4, Mass.
Republic Rubber Div., Lee Rubber & Tire Corp., Albert St., Youngstown 1, Ohio.
Swan Rubber Co., 436 E. Mansfield St., Bucyrus, Ohio.
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

### HOSE, Heater

Acme Rubber Mfg. Co., 115 Meade St., Trenton, N. J.
Boston Woven Hose & Rubber Co., 29 Hampshire St., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)
Buckeye Rubber Products Inc., 637 N. Jackson St., Lima, Ohio.
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Crown Products Co., 5722 S. 77th St., Ralston, Neb.
Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex.
Dayton Rubber Co., 2342 Riverview Ave., Dayton, Ohio.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodrich Industrial Products Co., B. F., 500 S. Main St., Akron 18, Ohio.
Grey Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.
Hewitt-Robins Inc., 666 Glenbrook Rd., Stamford, Conn.
Holfast Rubber Co., 1486 Lakewood Ave., S.E., Atlanta 1, Ga.
Miller Rubber Co., Div. B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Ridho Laboratories Inc., 211 E. Harrison St., Danville, Ill.
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
Swan Rubber Co., 436 E. Mansfield St., Bucyrus, Ohio.
Thermoid Co., Whitehead Rd., Trenton 6, N. J.

### HOSE, Hydraulic Brake

Acme Rubber Mfg. Co., 115 Meade St., Trenton, N. J.
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Anchor Coupling Co., 342 N. 4th St., Libertyville, Ill.
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
Eis Automotive Corp., Middletown, Conn.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.
Exello Accessories Mfrs. Inc., 81 Madison Ave., Hempstead, N. Y.
Flexonics Corp., 1315 S. Third Ave., Maywood, Ill.
Flex-O-Tube, Div. Flexonics Corp., 2525 S. Jim Daly Rd., Inkster, Mich.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodrich Industrial Products Co., B. F., 500 S. Main St., Akron 18, Ohio.
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio.
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
Lisle Corp., Brake Div., 805 E. Main St., Clarenda, Iowa.
Master Parts Div. of Airtex Products, Inc., Fairfield, Ill.
Motive Equipment Mfrs., Inc., 5253 Roosevelt Rd., Chicago 50, Ill.
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.
Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
Preferred Electric & Wire Co., Bush Terminal Bldg. #8, Brooklyn 32, N. N.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Stratoflex, Inc., 220 Roberts St. Cut-Off, Ft. Worth, Texas
Thermoid Co., Whitehead Rd., Trenton 6, N. J. (Booster.)
United Motor Service, General Motors Bldg., Detroit 2, Mich.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.
Wohlert Corp., 700 E. Grand River Ave., Lansing 5, Mich.

### HOSE, Radiator

Acme Rubber Mfg. Co., 115 Meade St., Trenton, N. J.
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. (Flexible and molded.)
Badger Mfg. Corp., 1501 W. Polk St., Chicago 7, Ill. (Chrome.)
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Cooper Tire & Rubber Co., Lima & Western Aves. Findlay, Ohio.
Crown Products Co., 5722 S. 77th St., Ralston, Neb.
Crushproof Tubing Co., 312 Park Blvd., Cleveland 14, Ohio.
Dallas Mfg. & Sales Co., P. O. Box 7181, Dallas, Tex.
Dayton Rubber Co., 2342 Riverview Ave., Dayton, Ohio.
Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn. (Flexible.)
Egan Mfg. Co., H. B., 425 W. Main St., Muskogee, Okla. (Flexible.)
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Bendable.)
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodrich Industrial Products Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 48, Ill.
Johns-Manville, 22 E. 40th St., New York, N. Y.
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio.
Mercer Rubber Co., Hamilton Square, N. J.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Moore & Co., Samuel, Mantua, Ohio.
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.
Raybestos-Manhattan, Inc., Equip. Sales Div., Bridgeport, Conn.
Ridbo Laboratories, Inc., 211 E. Harrison St., Danville, Ill.
Rubbercraft Corp. of Cal., Ltd., 110 E. 17th St., Los Angeles, Calif.

## GVW vs PAY-LOAD

**WHERE A POUND SAVED IS A DOLLAR EARNED!**

By saving dead weight, vacuum power can add several hundred pounds to pay-load, and earn extra dollars, as ton-miles build up.

In addition there is vital safety in having physical braking instantly available should power fail for any reason.

For these and other important reasons, vacuum power is the overwhelming choice on trucks, and HYDROVAC* leads all other makes combined.

...It will pay you to look into

**HYDROVAC (VACUUM HYDRAULIC) POWER BRAKING BY BENDIX**

*REG. U.S. PAT. OFF.

Bendix PRODUCTS DIVISION South Bend, IND.

Bendix AVIATION CORPORATION

### HOSE—continued

Snyder & Son, Inc., M. L., 1827 E. York St., Philadelphia 25, Pa.
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

### HOSE, Refrigerator

Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.

### HOSE, Vacuum Brake

Acme Rubber Mfg. Co., 115 Meade St., Trenton, N. J.
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
Bendix Products Div., Bendix Aviation Corp., South Bend 20, Ind.
Boston Woven Hose & Rubber Co., 29 Hampshire St., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Haywood Indus., P. O. Box 1004, Dayton 1, Ohio.
Hewitt-Robins, Inc., 666 Glenbrook Rd., Stamford, Conn.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Thermoid Co., Heavy Duty Div., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Velvac, Inc., 3534 W. Pierce St., Milwaukee 15, Wis.

### HOSE, Welding

(See also Cable, Welding)

Acme Rubber Mfg. Co., 115 Meade St., Trenton, N. J.
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.
Boston Woven Hose & Rubber Co., 29 Hampshire St., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Cincinnati Rubber Mfg. Co., Franklin Ave., Norwood, Cincinnati 12, Ohio.
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodrich Industrial Products Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Haywood Indus., P. O. Box 1004, Dayton 1, Ohio.
Hewitt-Robins, Inc., 666 Glenbrook Rd., Stamford, Conn.
Linde Co., 30 E. 42nd St., New York 17, N. Y.
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa. (Oxy-acetylene.)
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J.
Republic Rubber, Div. of Lee Rubber & Tire Corp., Albert St., Youngstown 1, Ohio.
Smith Welding Equipment Corp., 2633 Fourth St. S.E., Minneapolis 14, Minn.
Snyder & Son, Inc., M. L., 1827 E. York St., Philadelphia 25, Pa.
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

### HUBS, Wheel

Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa.
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Cal. (For truck trailers.)
Kelly Mfg. Co., 503 Broad St., Charleston 21, W. Va.
Kelsey-Hayes Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 735 E. Saginaw St., Lansing 3, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.

HYDRAULIC FLUID, See Fluid, Hydraulic Brake and Shock Absorber

### HYDROMETERS, Battery and Coolant

Beck Glass Blowing Co., 4-6 Court House Pl., Newark 2, N. J.
Bishman Mfg. Co., Osseo, Minn. (Hand.)
Chaslyn Co., 1952 Irving Park Rd., Chicago 13, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.
Freas Glass Works, Francis L., 140 E. Ninth Ave., Conshohocken, Pa.
General Scientific Equipment Co., 7516 Limekiln Pike Philadelphia 50, Pa.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill.
Kennedy Service Tools Co., 788 Evans Ave., Akron 5, Ohio.
Kimble Glass Co., P. O. Box 1035, Toledo 1, Ohio. (Sole distributors, Imperial Glass Mfg. Co., 1200 W. Harrison St., Chicago 7, Ill., to manufacturers.)
Kocour Co., 4800 S. St. Louis Ave., Chicago 32, Ill.
Murray Corp., E. Joppa Rd., Towson 4, Md.
Precision Thermometer & Instrument Co., 1465 Brandywine St., Philadelphia 30, Pa.
Preferred Electric & Wire Co., Bush Terminal Bldg. 28, Brooklyn 32, N. Y.
Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Weston Electrical Instruments Div. of Daystrom Inc., 614 Frelinghuysen Ave., Newark 12, N. J.
Willard Storage Battery Div., Electric Storage Battery Co., 246 E. 131st St., Cleveland 8, Ohio.

IGNITION SPRAY, See Insulation, Electrical Parts, Liquid

IGNITION TOOLS, See Tools, Ignition

### INDICATORS, Carbon Monoxide

Cambridge Instrument Co., Inc., Grand Central Terminal, New York 17, N. Y.
Mine Safety Appliances Co., Braddock, Thomas & Meade Sts., Pittsburgh 8, Pa.

### INDICATORS, Dump Body Angle

(Advertiser only)

Monroe Standard Inc., P. O. Box 366, Galion, Ohio.

INDICATORS, LOW BRAKE FLUID, See Signals, Low Brake Fuild

### INJECTION SYSTEMS, Gasoline & Diesel Engine

American Bosch Div., American Bosch Arms Corp., 3664 Main St., Springfield 7, Mass. (Diesel pumps.)
CAV Fuel Injection Equipment, Div. of Lucas Electrical Services, Inc., 14820 Detroit Ave., Cleveland, Ohio.
Diesel Equipment Div., General Motors Corp., 2100 Burlingame Ave., S.W., Grand Rapids 2, Mich.
Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. (Electronic.)
Hancock Diesel Service Co., 300 Walnut St., Findlay, Ohio. (Diesel reconditioning service.)
Hartford Machine Screw Co., P. O. Box 1440, Hartford 2, Conn. (Diesel.)
Marvel-Schebler Products Div., Borg-Warner Corp., Decatur, Ill. (Gasoline.)
Micro-Precision Div., Micromatic Hone Corp., 2205 Lee St., Evanston, Ill. (Diesel.)
Rochester Products Div., General Motors Corp., 1000 Lexington Ave., Rochester 3, N. Y.
Scintilla Div., Bendix Aviation Corp., Sherman Ave., Sydney, N. Y. (Diesel.)
Simmonds Aerocessories, Inc., 105 White Plains Rd., Tarrytown, N. Y. (Gasoline.)
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.

### INJECTORS, Diesel, Rebuilt

(Advertiser only)

Interstate Diesel Service, Inc., 2093 E. 19th St., Cleveland 15, Ohio.

### INJECTORS, Water, Gasoline Engine

American Octanator Corp., 549 Resevoir Ave., Cranston, R. I.
Wang Enterprises, 3110 Broadview Rd., Cleveland 9, Ohio.

### INSPECTION SYSTEM PARTS

Magnaflux Corp., 5908 Northwest Highway, Chicago 31, Ill.

### INSTRUMENTS, Battery Testing

(See also Hydrometers)

Associated Equipment Corp., 5147 Natural Bridge, St. Louis 15, Mo.
Auto Test, Inc., 600 S. Michigan Ave., Chicago 5, Ill.
Baldor Electric Co., 4357 Duncan Ave., St. Louis 10, Mo.
Christie Electric Corp., 3410 W. 67th St., Los Angeles 43, Calif.
Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.
Electric Storage Battery Co., 42 S. 15th St., Philadelphia 2, Pa.
Fox Products Co., 4720 N. 18th St., Philadelphia 41, Pa.
General Scientific Equip. Co., 7516 Lime Kiln Pike, Philadelphia 50, Pa.
Gould-National Batteries, Inc., E-1201 First National Bldg., St. Paul 1, Minn.
Graham Research, Inc., 666 22nd Ave., N.E., Minneapolis 18, Minn.
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.
Heyer Industries, Inc., 471 Cortlandt St., Belleville, N. J.
Hoyt Electrical Instrument Works, 42 Carleton St., Cambridge 32, Mass. (Sole distributors, Burton-Rogers Co., 42 Carleton St., bridge 42, Mass.)
Jordan Electrical Products Div., 222 N. Second St., Minneapolis 1, Minn.
King Electric Equipment Co., 9123 Inman Ave., Cleveland 5, Ohio.
Marquette Mfg. Co., Inc., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill.
Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Triple A Specialty Co., 2101 Walnut St., Chicago 12, Ill.
Tungsten Mfg. Co., 1923 E. 79th St., Chicago 49, Ill.
Weidenhoff Corp., Algona, Iowa.
Willard Storage Battery Div., Electric Storage Battery Co., 246 E. 131st St., Cleveland 8, Ohio.
Wilson, Inc., K. R., Arcade, N. Y.

### INSTRUMENTS, Distributor Testing

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Kal-Equip. Co., 411 Washington St., Otsego, Mich.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
King Electric Equipment Co., 9123 Inman Ave., Cleveland 5, Ohio.
Motoraide Corp., 2400 Emerald St., Phila. 25, Pa.
Price Instrument Engineering Co., Inc., Newport News, Va. (Manometer.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Weidenhoff Corp., Algona, Iowa.
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis.

### INSTRUMENTS, Electrical Circuit Testing

(See also Analyzers, Trouble)

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Arrow Armatures Co., 15 Fordham Rd., Boston 34, Mass.
Auto-Test, Inc., 600 S. Michigan Ave., Chicago 5, Ill.
Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo.
Bristol Co., Waterbury 20, Conn.

Crumbliss Mfg. Co., 3830 N. Podlin Dr., Franklin Pk., Ill.
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
General Cement Mfg. Co., 919 Taylor Ave., Rockford, Ill. (Sole distributors, Speedex Mfg. Co., 919 Taylor Ave., Rockford, Ill.)
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y.
Graham Research, Inc., 666 22nd Ave., N.E., Minneapolis 18, Minn.
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Hoyt Electrical Instrument Works Inc., 42 Carleton St., Cambridge 32, Mass. (Sole distributors, Burton-Rogers Co., 42 Carleton St., Cambridge 42, Mass.)
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill. (For voltage regulators and generators, armatures and field coils.)
Kal-Equip Co., 411 Washington St., Otsego, Mich.
Kennedy Service Tools Co., 788 Evans Ave., Akron 5, Ohio.
King Electric Equipment Co., 9123 Inman Ave., Cleveland 5, Ohio.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Mercury Electric Corp., 719 Wyandotte St., Kansas City, Mo.
Motoraide Corp., 2400 Emerald St., Phila. 25, Pa.
Newman Machine Co., 38 James St. E., Providence, R. I.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif.
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo.
Triple-A-Specialty Co., 2835 N. Western Ave., Chicago 18, Ill.
Turnsignal Corp., 2720 W. Susquehanna Ave., Philadelphia 22, Pa.
Weidenhoff Corp., Algona, Iowa.
Wells Mfg. Co., 12 S. Brooke St., Fond du Lac, Wis.
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.
Wilson, Inc., K. R., Arcade, N. Y.
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. (Armature testers.)

## INSTRUMENTS, Engine Testing

Allen Electric & Equip. Co., 2101 N. Pitcher St., Kalamazoo 13, Mich.
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Kal-Equip Co., 411 Washington St., Otsego, Mich.
Rinck-McIlwaine, Inc., 16 Hudson St., N. Y. 13, N. Y.
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Weidenhoff Corp., Algona, Iowa.
Wilson, Inc., K. R., Arcade, N. Y.

## INSTRUMENTS, Pressure Testing, Cooling System

Spotrim Corp., 15301 Mack Ave., Detroit 24, Mich.

## INSTRUMENTS, Strain Testing

Magnaflux Corp., 7300 W. Lawrence Ave., Chicago 31, Ill.

## INSULATION, Electrical Parts, Liquid

Barton Products Co., 1891 W. Winnebago Ave., Chicago 47, Ill.
Boruski, Jr., Ernest F., 7104 Alvern St., Los Angeles 45, Calif.
Champion Bronze Powder & Paint Co., Inc., 2526 W. Van Buren St., Chicago 12, Ill.
Chemical Prods. Corp., King Philip Rd., East Providence, R. I. (Ignition.)
Dow Chemical Co., Midland, Mich.
Dow Corning Corp., Midland, Mich.
Dupli-Color Products Co., 2440 S. Michigan Ave., Chicago 16, Ill. (For ignition systems.)
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Heet Div. of Demert & Dougherty Inc., 3001 W. 47th St., Chicago 32, Ill.
Ignition-Ite Products Co., P. O. Box 373, Downey, Calif. (For ignition systems.)
Krylon, Inc., Ford & Washington Sts., Norristown, Pa. (For ignition wiring, battery terminals, etc.)
Lee Polish Mfg. Co., 1399 Utica Ave., Brooklyn 3, N. Y.
M-M-A, Inc., Coho Bldg., Lancaster, Pa.
Porter Mfg. & Supply Co., 2836 Sunset Blvd., Los Angeles 26, Calif. (For ignition systems.)
Plasti-Kote, Inc., 9801 Harvard Rd., N.W., Cleveland 5, Ohio. (For ignition systems.)
Radiator Specialty Co., 1400 W. Independence Blvd., Charlotte 1, N. C. (For ignition systems.)
Reynolds Ink Inc., 4500 Euclid Ave., Cleveland 3, Ohio (Ignition system.)
V-O Mfg. Co., 13165 Sherman Way, North Hollywood, Calif. (Ignition.)
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa. (For ignition systems.)
Watts-Wagner Co., 288 Frelinghuysen Ave., Newark 5, N. J. (For ignition systems, etc.)
Wolfe-Kote Co., 1225 N. 8th St., Sheboygan, Wis.
Zip Abrasive Co., 1360 W. 9th St., Cleveland 13, Ohio. (Ignition system.)

## INSULATION, Felt, Hair, Paper, Glass, Fiber, Wool, etc.

American Hair & Felt Co., 322 Merchandise Mart, Chicago, Ill. (Hair and felt.)
Armstrong Cork Co., Industrial Div., Lancaster, Pa. (Felt paper, fiberglas for trailers.)
Arvey Corp., 6401 E. Nevada Ave., Detroit 12, Mich. (Felt.)
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Barley-Earhart Corp., Portland, Mich. (Felt.)
Brandywine Fibre Products Co., 1441 Poplar St., Wilmington, Del.
Burlington Mills Inc., Burlington, Wis. (Plastic coated trunk lining.)
Continental-Diamond Fibre Corp., Newark 10, Del.
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Dow Chemical Co., Midland, Mich. (Expanded polystyrene.)
Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y. (Felt.)
Franklin Fibre-Lamitex Corp., 18th St. E. of Market St., Wilmington, Del.
Great American Industries, Inc., Rubatex Div., Bedford, Va. (Cellular rubber.)
Gustin-Bacon Mfg. Co., 230 W. 10th St., Kansas City, Mo.
Johns-Manville, 22 E. 40th St., New York 16, N. Y. (Mineral wool.)
Keystone Roofing Mfg. Co., Franklin St. & P. R. R., York, Pa. (Paper.)
LOF Glass Fibers Co., 1810 Madison Ave., Toledo, Ohio. (Glass wool.)
National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del.
Owens-Corning Fiberglass Corp., National Bank Bldg., Toledo 1, Ohio. (Fibrous glass.)
Pittsburgh Plate Glass Co., Fiber Glass Div., 1 Gateway Center, Pittsburgh 22, Pa. (Fiber glass.)
Ruberoid Co., 307 N. Michigan Ave., Chicago 1, Ill. (Felt.)
Seaman Products Div. of Seaman Paper Co., 1236 Sherman Ave., Evanston, Ill.
Silvercote Products Inc., 161 E. Erie St., Chicago 11, Ill. (Fiber glass.)
Spaulding Fibre Co., 310 Wheeler St., Tonawanda, N. Y. (Paper, for motors.)
Taylor Fibre Co., Norristown, Pa.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. (Plastic foam.)
Western Felt Works, 4021 W. Ogden Ave., Chicago 23, Ill. (Felt.)
Wilmington Fibre Specialty Co., New Castle, Del.

## INSULATORS, Spark Plug

Frenchtown Porcelain Co., 8th & Harrison Sts., Frenchtown, N. J.
Sealtight Corp., 228 First St., N.E., Cedar Rapids, Iowa.

## IRONS, Soldering, Electric

American Electrical Heater Co., Woodward, Cass & Burroughs Aves., Detroit 2, Mich.
Dockson Corp., 3839 Wabash Ave., Detroit 8, Mich.
General Electric Co., Apparatus (Sales Div.), 1 River Rd., Schenectady 5, N. Y.
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Kwikheat Mfg. Co., 3732 San Fernando Bldg., Glendale 4, Calif.
Lenk Mfg. Co., Franklin, Ky.
Linde Co., 30 E. 42nd St., New York 17, N. Y.
Luma Electric Equipment Co., P. O. Box 132, Toledo 1, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Stanley Tools, 111 Elm St., New Britain, Conn.
Turnsignal Co., 2720 W. Susquehanna Ave., Philadelphia 21, Pa.
Vulcan Electric Co., 88 Holten St., Danvers, Mass.
Wall Mfg. Co., P., P. O. Box 71, Grove City, Pa.
Wasserleing Mfg. Co., Inc., 7400 3rd Ave., No. St. Petersburg 6, Fla.
Weller Electric Corp., 601 Stone's Crossing Rd., Easton, Pa.
Wen Products Inc., 5806 Northwest Hwy., Chicago 31, Ill.
Zephyr Mfg. Co., 201 Hindry Ave., Inglewood, Calif. (Electric.)

## IRONS, Tire Branding

Everhot Mfg. Co., 57 S. 19th St., Maywood, Ill.
Merkert & Sons, 146-10 Jamaica St., Jamaica, N. Y.
Vulcan Electric Co., 88 Holten St., Danvers, Mass.

## JACKS, Transmission

Accurate Re-Nu Clutch Div. of MarPor Inc., 168 N. Michigan Ave., Chicago 1, Ill.
Air Hydraulic, Inc., 13106 Broadway Ave., Cleveland 23, Ohio.
Auto Specialties Mfg. Co., Inc., 643 Grove St., St. Joseph, Mich.
Ajax Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.
Blackhawk Tool Co., 5325 W. Rogers St., Milwaukee 46, Wis.
Cleveland Pneumatic Tool Co., 3781 E. 77th St., Cleveland 5, Ohio.
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Manzel Div., Houdaille-Hershey Corp., 315 Babcock St., Buffalo 10, N. Y.
Stephenson Industries, Inc., 548 E. Fort St., Detroit 26, Mich.
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.
Weaver Mfg. Co., 2177 S. 9th St., Springfield, Ill.
Wudel Mfg. Co., Edmond J., 6082 Ferguson Dr., Los Angeles 22, Calif.

## JACKS, Vehicle, Hydraulic

Ajax Mfg. Corp. of Wisconsin, 1201 Michigan Blvd., Racine, Wis.
Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.
Bee-Line Co., Box 569, Davenport, Iowa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 46, Wis.
Edgewater Automotive Div. Auto Specialties Mfg. Co., St. Joseph, Mo.
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis.
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio. (Hand and floor.)
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 7, Neb. (Bumper.)
Kingston Products Corp., 1400 N. Webster St., Kokomo, Ind.
March Engrg. Co., Oshkosh, Wis.
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Manzel, Inc., 315 Babcock St., Buffalo 10, N. Y.
Reliable Jack Div. of Dayton Malleable Iron Co., 1401 W. Second St., Dayton, Ohio.
R U Jack Corp., P. O. Box 205, Arcade, N. Y.
Scott-Atwater Mfg. Co., 2901 E. Hennepin Ave., Minneapolis 13, Minn.
Star Jack Co., 2638 Davisson St., River Grove, Ill.
Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 6, Mich.
Templeton, Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill.

### JACKS—continued

Vulcan Mfg. Co., 400 W. Third St., Winona, Minn.
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wilson, Inc., K. R., Arcade, N. Y.
Zamax Mfg. Co., W. Broad St. & Maple Ave., Haverstraw, N. Y.

### JACKS, Vehicle, Mechanical

Aircapitol Mfrs., Inc., 1618 S. Mead St., Wichita, Kansas.
Ajax Mfg. Corp. of Wisconsin, 1201 Michigan Blvd., Racine, Wis.
Automatic Steel Products, Inc., Spun Steel Div., 1201 Camden Ave., S. W., Canton 6, Ohio.
Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 46, Wis.
Caster Mold & Machine Co., 1171 Wooster Rd., N., Barberton, Ohio.
Dalton Foundries, Inc., Warsaw, Ind. (Scissor type.)
Duff-Norton Co., 2709 Preble Ave., N. S. Pittsburgh, Pa.
Hyde Park Iron Works Co., 931 E. 51st St., Brooklyn 3, N. Y.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Peterson Mfg. Co., 2716 E. 14 St., Kansas City 27, Mo.
Ryerson & Haynes Inc., 2307 E. Ganson St., Jackson, Mich.
Sal Metal Products Co., 120 Freeman St., Brooklyn, N. Y.
Shaw Co., Joseph, 6120 Detroit Ave., Toledo 7, Ohio.
So-Lo Jack Co., Attleboro, Mass.
Templeton, Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill.
Triangle Jack Co., 1208 S. Washington St., Wichita, Kan.
Vulcan Mfg. Co., 400 W. Third St., Winona, Minn. (Bumper.)
Universal Tool & Stamping Co., Butler, Ind.
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Woodworth Corp., C. B., Greene, N. Y.

### JACKS, Vehicle, Pneumatic

Bay Lift Div. Lifetime Products Corp., Box 537 Youngstown 1, Ohio.
Branick Mfg. Co. Inc., 2600 Third Ave. N., Fargo, N. D.
Chicago Pneumatic, 8 E. 44th St., New York 17, N. Y.

### JIGS, Connecting Rod Aligning

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Miller Mfg. Co., 17640 Grand River Ave., Detroit 27, Mich.
Olson Co., Thomas C., 609 E. Washington Ave., Madison 3, Wis.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 47, Calif.
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Tex.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Wilson, Inc., K. R., Arcade, N. Y.

### JIGS, Ring Gear Riveting

Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Manley Div., Douglas Motors Inc., 1234 W. 62nd St., Milwaukee 13, Wis. (Front wheel suspension.)

### KEYS, Valve Stem

Aluminum Industries, Inc., 3670 Werk Rd., Cincinnati 11, Ohio.
Ertel Products Corp., Div. Ertel Mfg. Corp., 1400 E. 20th St., Indianapolis, Ind.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Preferred Electric & Wire Co., Bush Terminal Bldg. #8, Brooklyn 32, N. Y.
Raymond Mfg. Div. Associated Spring Corp., 226 S. Center St., Corry, Pa.
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Div. Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio.

### LACQUERS

(See also Enamels)

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
American Lacquer Solvents Co., Perkiomen Junction, Phoenixville, Pa.
American Paint Co., 902 Larrabee St., Chicago 10, Ill.
Automotive Finishes, Inc., P. O. Box 457 Northwestern Station, Detroit 4, Mich.
Bakelite Corp., 30 E. 42nd St., New York 17, N. Y.
Briggs Mfg. Co., 3675 E. Outer Drive, Detroit 34, Mich.
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo.
Day & Co., James B., 1872 Clybourn Ave., Chicago 14, Ill.
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales, Wilmington 98, Del.
Flood & Conklin Co., 132 Chestnut St., Newark 5, N. J.
Forbes Finishes Div., Pittsburgh Plate Glass Co., 3800 W. 143rd St., Cleveland 11, Ohio. (Nitro-cellulose and Ethyl cellulose.)
Glidden Co., 900 Union Commerce Bldg., Cleveland 14, Ohio.
Horn Co., A. C., Products Finishes Div., 10 St. & 44 Ave., Long Island City 1, N. Y.
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago 16, Ill.
Martin-Senour Co., 2500 Senour Ave., Chicago 8, Ill.
Nason & Co., R. N., 151 Potrero Ave., San Francisco, Calif.
Nikolas & Co., G. J., 1227 Van Buren St., Chicago 7, Ill.
Oxidermo Products, Inc., Springport, Mich.
Pierce & Stevens Chemical Corp., 710 Ohio St., Buffalo, N. Y.
Pittsburgh Plate Glass Co., Paint Div., 1 Gateway Center, Pittsburgh 22, Pa.
Plasti-Kote, Inc., 9801 Harvard Rd., N.W., Cleveland 5, Ohio.
Rinshed-Mason Co., 5935 Milford St., Detroit 10, Mich.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Standard-Toch Chemicals, Inc., 2600 Richmond Terrace, Staten Island 3, N. Y.
Zac-Lac Paint & Lacquer Corp., 350 Simpson St. N.W., Atlanta 13, Ga.

### LAMP BULBS, Miniature Incandescent

General Electric Co., Miniature Lamp Dept., Nela Park, Cleveland, Ohio.
Hudson Lamp Co., 528 Elm St., Kearny, N. J.
Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J.
Matchless Electric Co., 1700 Washington Blvd., Chicago 12, Ill.
National Carbon Co. Div. of Union Carbide & Carbon Co., 30 E. 42nd St., New York 17, N. Y.
Penetray Corp., 615 Front St., Toledo 5, Ohio.
Save Lamp Co., 3687 Ash St., Baltimore 11, Md.
Sylvania Electric Products, Inc., Lighting Div., 60 Boston St., Salem, Mass.
Tung-Sol Electric, Inc., 95 Eighth Ave., Newark 4, N. J.

**LAMP LENSES, See Lenses, Lamp**

### LAMPS, Back-Up, Clearance, Cowl, Dome, Fender, Tail, Parking and Stop

Akron Specialty Mfg. Co., 119 Ira Ave., Akron 1, Ohio (Marker.)
American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill. (Tail, parking and clearance.)
Anthes Force Oiler Co., Ft. Madison, Iowa. (Tail, parking marker and clearance.)
Apco Mossberg Co., Lamb St., Attleboro, Mass. (License plate.)
Arrow Safety Device Co., M. Holly, N. J. (Tail, dome, parking and clearance.)
Auto Lamp Mfg. Co., 2009 S. Indiana Ave., Chicago 9, Ill. (Clearance, marker, license & back-up.)
Berg Mfg. & Sales Co., 1712 S. Michigan Blvd., Chicago 16, Ill. (Including trailer clearance and retractable type stop lamps.)
Betts Machine Co., 1800 Pennsylvania Ave. W., Warren, Pa.
Bolser Corp., S. Main St., Cedar Falls, Iowa. (Clearance and marker.)
Burgess Battery Co., Ft. of Exchange St., Freeport, Ill. (Tail.)
Capson Mfg. Co., 2565 Fullerton Ave., Chicago, Ill. (Dash.)
Cole Automotive Products Co., P. O. Box 56, Alfred St. Sta., Detroit 1, Mich. (Clearance, tail and marker for trucks and buses.)
Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio. (Dome, marker, clearance, back-up, etc.)
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (Dome, back-up, tail, parking, running board and clearance.)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.
Electric Auto-Lite Co., Toledo 1, Ohio. (Cowl, fender, tail and clearance.)
Electric Service Works, Delta Star Electric Div., H. K. Porter Co., 17th & Cambria, Philadelphia 32, Pa.
Electroline Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.
General Electric Co., Miniature Lamp Dept., Nela Park, Cleveland 12, Ohio.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Clearance dome, back-up, tail and marker and flashing warning lamps, emergency vehicle; fuel compartment lamps.)
Grote Mfg. Co., Grote Square, Bellevue, Ky. (Tail, back-up, dome, clearance, combination stop, tail and license bracket.)
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
H & P Die & Stamping Co., 13945 Triskett Rd., Cleveland 11, Ohio.
Hall Lamp Co., C. M., 1035 Hancock Ave., E., Detroit, Mich.
Hollywood Accessories, Inc., 11917 W. Olympic St., Los Angeles 64, Calif. (License plate.)
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio. (Back-up, fender, dome, tail, parking and clearance.)
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. (Parking.)
McKee Glass Co., Bullitt Ave., Jeanette, Pa. (Dome.)
Miro-Flex Co., 1824 E. 2nd St., Wichita 7, Kan. (Clearance and marker.)
Norlipp Co., 5926 S. Lowe Ave., Chicago 21, Ill (Clearance and back-up.)
Peterson Mfg. Co., 2716 E. 14th St., Kansas City 7, Mo.
Regal Motor Products Inc., 6325 Grand River Ave., Detroit 8, Mich. (Tail & parking.)
Rosen & Co., A. W., 447 Tenth Ave., New York 7, N. Y. (Cowl, fender, dome, marker, parking and clearance.)
Rowe Industries, 1702 Wayne St., Toledo 9, Ohio.
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Cal. (Tail, parking clearance, fender, back-up and dome.)
Signal-Stat Corp., Signal-Stat Bldg., 523 Kent Ave., Brooklyn 11, N. Y.
Sparton Automotive Div. of Sparton Corp., Jackson, Mich. (Armored, clearance, flush-type, back-up, marker, tail, and combination stop and tail.)
Spenker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis. (Back-up, clearance, tail and marker.)
Speedometer Service Co., 151 Forest St., Montclair, N. J. (Hood and trunk.)
Superior Parts Mfg. Corp., 1922 W. Grand Ave., Chicago 22, Ill. (Clearance.)
Terado Co., 1068 Raymond Ave., St. Paul 14, Minn.
Thatcher Glass Mfg. Co., McKee Div., Jeannette, Pa. (Dome.)
Trippe Mfg. Co., 133 N. Jefferson St., Chicago 6, Ill.
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn 38, N. Y. (Back-up.)
U. S. Tool & Mfg. Co., 1832 N. Sheffield Ave., Chicago, Ill. (Clearance for trucks and buses.)
United Motor Service, General Motors Bldg., Detroit 2, Mich.
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill. (Back-up.)
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Fender, back-up, clearance, dome, parking and tail.)

# HEIN-WERNER HYDRAULIC JACKS

## for fast lifting, easy positioning and safe handling

### Hein-Werner Hydraulic Truck Jacks

. . . are powerful, dependable and fast acting. Built to withstand severe usage. Operate in vertical or horizontal position. Pressure by-pass prevents over travel of ram. Protected positive release valve prevents accidental lowering. Pumping unit is leak proof. One piece, extension screw is hardened for longer life — greater stability. Available in capacities of 1½, 3, 5, 8, 12, 20, 30, 50 and 100 tons. Models of 12 tons and larger have carrying and positioning handles. All are factory tested at 1½ times rated capacity to assure maximum safety.

### Hein-Werner Hydraulic Service Jacks

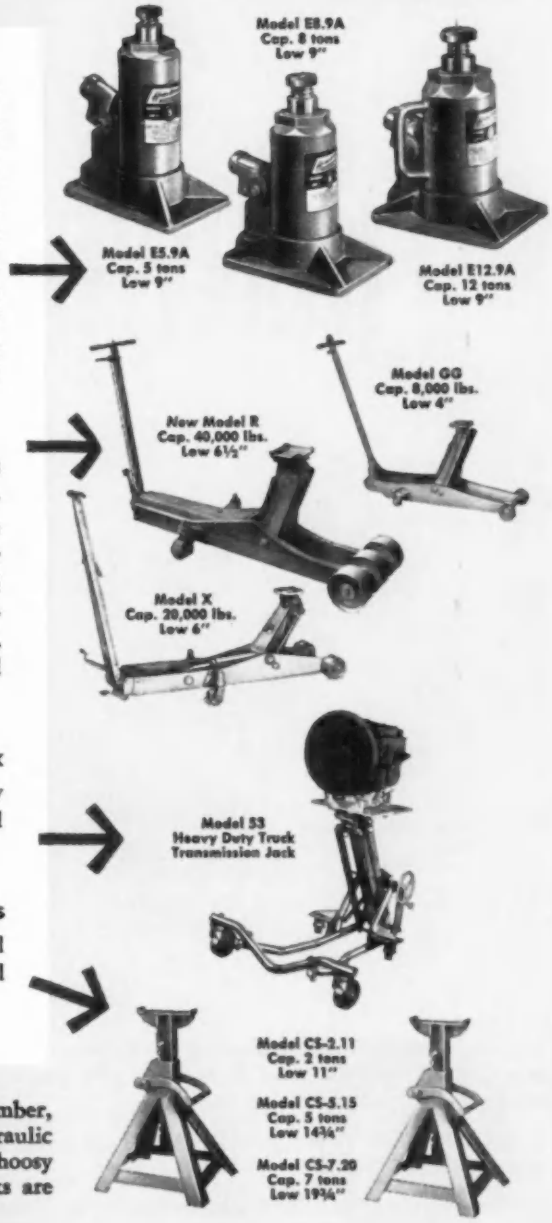
. . . are sturdy and packed with power for quick, easy lifting. Large swivel wheels and easy-to-spot white swivel saddle permit fast, sure positioning under load. All side members are of structural steel and hydraulic units are double tested to assure dependable service. Available in models of 1¼, 1½, 2, 4, 10 and 20 tons capacity. Each is individually tested and equipped with safety valve.

### New Hein-Werner Truck Transmission Jack

. . . designed for one-man handling of heavy duty transmissions, torque converters, differentials and rear end assemblies. Capacity 2000 pounds.

### New Hein-Werner Stout-Boy Stands

. . . offer quicker adjustment — greater safety and stability in three popular capacities . . . 2, 5 and 7 tons.




**Keep up to date in '58 with Hein-Werner. Remember, Hein-Werner manufactures and sells more hydraulic jacks than any other company in the world! Be choosy . . . be safe — make sure *all* of your shop jacks are Hein-Werner.**

FRANCHISED SERVICE DEPOT
Hein-Werner

**For Your Protection all factory approved service stations now display this emblem.**

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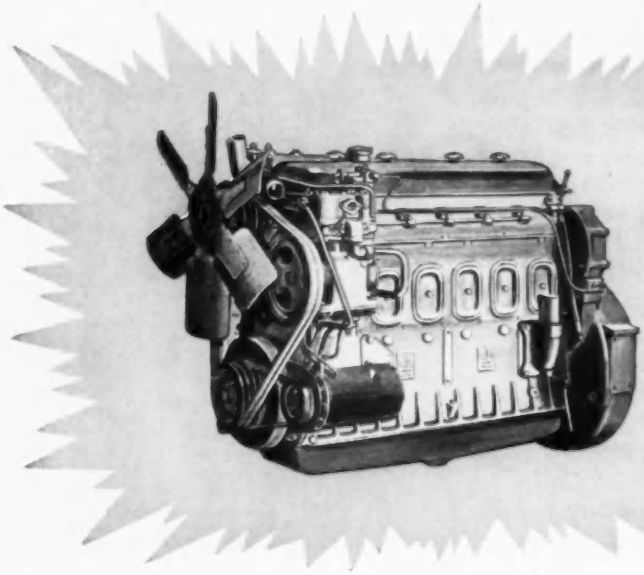
**WAUKESHA, WISCONSIN**

**The complete Hein-Werner line includes: The famous "55", "Screwball" and WHIZ Twin Saddle Service Jacks . . . Under Axle Jacks of 1½ to 100 tons capacity . . . "Bumper-Lift" Jacks for passenger cars . . . Service Jacks for shop use . . . Transmission Jacks . . . Adjustable Car Stands . . . "Push and Pull" and "Pushmaster" Jacks for body, fender, and frame repair work.**

# Now a new pair for profits!

# "JIMMY" DIESEL and KENWORTH



Whatever the job—hauling on or off the highway—these sturdy partners work hand in hand to give you top returns on your transportation dollars.

Today, more and more "Jimmy" Diesels are going to work in Kenworth trucks—with good reasons.

For the recognized dependability of the GM 2-cycle Diesel, its long life and low-cost maintenance—plus lighter weight for bigger payloads—add up to highest earning power.

And the new GM "71E"* engine—with four exhaust valves per cylinder—is proving itself the greatest performer on the highways. It delivers higher peak torque at lower speed to move big loads up tough grades faster. It's cleaner-burning, cooler-running, has lower exhaust temperatures. And it produces fuel mileage that's winning the acclaim of truckers everywhere!

The "Jimmy" Diesel also offers easiest accessibility for inspection and maintenance—cylinders can be inspected by simply removing hand hole cover plates. Service available anywhere from GM Diesel engine distributors and dealers who pinpoint highways throughout the United States and Canada.

Today, more than ever before, "there's more real worth in a Kenworth"—available with rugged GM Diesel power for every heavy-duty hauling job.

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*Truck and bus engines: "4-71E"—140 h.p.; "6-71E"—210 h.p. New Turbopower models harness the energy of exhaust gases to deliver even higher power: "4-71T"—171 h.p.; "6-71T"—236 h.p.*

Write for brochure on new *lightweight* aluminum version of "6-71E" "Jimmy" Diesel engine—weighs up to 690 lbs. less than competitors in 210-h.p. range.

Now—more than ever—*it pays to standardize on GM Diesels*—available in more than 1800 applications of power equipment built by 250 manufacturers. *Parts and Service* Worldwide.

SILVER 25TH ANNIVERSARY AMERICAN TRUCKING ASSOCIATIONS 1933 1958

# DETROIT DIESEL

## *Engine Division of General Motors, Detroit 28, Michigan*

Regional Offices: New York, Atlanta, Detroit, Chicago, Dallas, San Francisco

In Canada: GENERAL MOTORS DIESEL LIMITED, London, Ontario • Single Engines...30 to 364 H.P. Multiple Units...Up to 893 H.P.

### LAMPS, Drying, Baking and Heating

Dry Clime Lamp Corp., 410 Mill St., Greensburg, Ind.
Fostoria Pressed Steel Corp., N. Main St., Fostoria, Ohio. (Infra-red.)
General Electric Co., Lamp Div., Nela Park, Cleveland 12, Ohio. (Infra-red.)
Master Mfg. Co., 811 W. Cabrini St., Chicago 7, Ill. (Infra-red.)
North American Electric Lamp Co., 1520 N. 13th St., St. Louis 6, Mo. (Infra-red.)
Penetray Corp., 615 Front St., Toledo 5, Ohio. (Infra-red.)
Trippe Mfg. Co., 133 N. Jefferson St., Chicago 6, Ill.
Westinghouse Electric Corp., Lamp Div., MacArthur Ave., Bloomfield, N. J.

### LAMPS, Fog, Head and Spot

American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill.
Arnolt Corp., Automatic Div., Argonne Rd., Warsaw, Ind.
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 9, Ill. (Fog and spot.)
Cable Electric Products Inc., 234 Daboll St., Providence 7, R. I. (Spot.)
Carpenter Mfg. Co., 195 Master-Light Bldg., Somerville 45, Mass.
Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn. (Spot.)
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (Fog and spot.)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.
Electric Auto-Lite Co., Toledo 1, Ohio. (Fog and road.)
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.
General Electric Co., Miniature Lamp Dept., Nela Park, Cleveland 12, Ohio.
General Electric Co., Wiring Devices Dept., 95 Hathaway St., Providence 7, R. I. (Spot.)
Great Lakes Tractor Co., Mill St., Rock Creek, Ohio.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Fog.)
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky. (Fog.)
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
Hall Lamp Co., C. M., 1035 E. Hancock Ave., Detroit, Mich. (Fog.)
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
Lumidor Mfg. Co., 4801 E. 50th St., Los Angeles 58, Calif. (Road and spot.)
Matchless Electric Co., 1423 W. Lake St., Chicago 7, Ill.
Peterson Mfg. Co., 2716 E. 14th St., Kansas City 27, Mo. (Fog.)
Portable Light Co., 216 William St., New York 38, N. Y.
Regal Motor Products, Inc., 6325 Grand River Ave., Detroit 8, Mich.
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.
Spartan Automotive Div. of Sparton Corp., Jackson, Mich. (Fog and auxiliary driving.)
Tung-Sol Electric, Inc., 95 8th Ave., Newark 4, N. J.
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn 38, N. Y. (Fog.)
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill.
Westinghouse Electric Corp., Lamp Div., MacArthur Ave., Bloomfield, N. J.
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Also combination mirror and spot light.)

**LAMPS, HEAD, See Lamps, Fog, Head and Spot**

### LAMPS, Sealed Beam Units

Electric Auto-Lite Co., Toledo 1, Ohio.
General Electric Co., Lamp Div., Nela Park, Cleveland 12, Ohio.
Guide Lamp Div. General Motors Corp., 25 St. & Arrow Ave., Anderson, Ind.
Trippe Mfg. Co., 133 N. Jefferson St., Chicago 6, Ill.
Tung-Sol Electric, Inc., 95-8th Ave., Newark 4, N. J.
United Motor Service, General Motor Bldg., Detroit 2, Mich.
Westinghouse Electric Corp., Lamp Div., MacArthur Ave., Bloomfield, N. J.

### LAMPS, Tell-Tale, Rear Signal or Tail Lamp, Dash

Berg Mfg. & Sales Co., 1712 S. Michigan Blvd., Chicago 16, Ill.
Cole-Hersee Co., 20 Old Colony Ave., Boston 20, Mass.
Rosen & Co., A. W., 447 Tenth Ave., New York 7, N. Y.
Signal-Stat Corp., Signal-Stat Bldg., 523-39 Kent Ave., Brooklyn 11, N. Y.
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis. (Hand brake.)

### LAMPS, Trouble, Battery Operated

Alden Products Co., 150 N. Main St., Brockton 64, Mass. (Plugs into cigar lighter socket.)
Arsco Mfg. & Sales Co., 451 Tenth Ave., N. Y. (Plugs into cigar lighter socket.)
Busch & Co., A. G., 6138 Northwest Hwy., Chicago 31, Ill. (Plugs into cigar lighter socket.)
Cable Electric Products Inc., 234 Daboll St., Providence 7, R. I.
Cole-Hersee Co., 20 Old Colony Ave., Boston 20, Mass.
Electroline Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.
Enco Mfg. Co., 4520 W. Fullerton Ave., Chicago 39, Ill.
Guide Lamp Div., General Motors Corp., 25th St. and Arrow Ave., Anderson, Ind. (Plugs into cigar lighter socket.)
Hollywood Accessories, Inc., 11917 W. Olympic Blvd., Los Angeles 64, Calif. (Plugs into cigar lighter socket.)
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kilbern-Sauer Co., Post Rd., Fairfield, Conn. (Also magnetic.)
Nelmor Mfg. Corp., 26420 Lakelana Blvd., Euclid, Ohio.
Perfection Automotive Products Corp., 725 W. Elizabeth St., Detroit 1, Mich.
Standard Portable Cord Co., Mayville, N. Y.
Triple-A Specialty Co., 2835 N. Western Ave., Chicago 18, Ill.
U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill.
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill.
Walker Bros., River & End Sts., Conshohocken, Pa.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

### LAMPS, Trouble, Electric

Advanced Mfg. Inc., 738 W. 17th St., Costa Mesa, Calif.
Appleton Electric Co., 1701 Wellington Ave., Chicago 13, Ill.
Benjamin Reel Products, Inc., 10700 Broadway, Cleveland 25, Ohio.
Black Mfg. Co., M., 300 N. Third St., Philadelphia 6, Pa.
Carpenter Mfg. Co., 195 Master-Light Bldg., Somerville 45, Mass.
Cordomatic, Dept. C, 17th and Indiana, Philadelphia 32, Pa.
Crescent Co., Pawtucket, R. I.
Ferry Mfg. Co., 3116 Spring Garden St., Philadelphia 4, Pa.
General Electric Co., Wiring Device Dept., 95 Hathaway St., Providence 7, R. I.
Glade Mfg. Co., 1632 W. 75th Place, Chicago 20, Ill.
Kliegl Bros. Universal Electric Stage Lighting Co., 321 W. 50th St., New York, N. Y.
Lufkin Rule Co., Hess Ave., Saginaw, Mich. (Magnetic.)
Magnetix, Inc., 101 S. Van Brunt St., Englewood, N. J. (Magnetic.)
McGill Mfg. Co., Electrical Div., 259 Indiana Ave., Valparaiso, Ind.
Moffatt Products Inc., 3124 Washington Ave. N., Minneapolis 11, Minn.
Pyle-National Co., 1334 N. Kostner Ave., Chicago 51, Ill.
Royal Electric Corp., 95 Grand Ave., Pawtucket, R. I.
Save Lamp Co., 3687 Ash St., Baltimore 11, Md.
Standard Portable Cord Co., Mayville, N. Y.
Triple-A Specialty Co., 2835 N. Western Ave., Chicago 18, Ill.
U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill.
Walker Bros., River & End Sts., Conshohocken, Pa.

### LAMPS, Warning

American Automatic Devices Co., Harrison & Throop & Congress Sts., Chicago 7, Ill.
Busch & Co., A. G., 6138 Northwest Hwy., Chicago 31, Ill. (Plugs into cigar lighter socket.)
Carpenter Mfg. Co., 195 Master-Light Bldg., Somerville 45, Mass. (Roof mounted, colored and flashing.)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.
Federal Sign & Signal Corp., 8765 S. State St., Chicago 19, Ill. (Flashing red light for emergency vehicles, also combination siren and warning light.)
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Flashing.)
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.
Portable Light Co., 216 William St., New York 38, N. Y. (Revolving red.)
Pyle-National Co., 1334 N. Kostner Ave., Chicago 51, Ill. (Revolving.)
Signal-Stat Corp., Signal-Stat Bldg., 523 Kent Ave., Brooklyn 11, N. Y.
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.
Trippe Mfg. Co., 133 N. Jefferson St., Chicago 6, Ill. (Revolving flashing.)
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill.

**LANDING GEARS, TRAILER, See Gears, Landing Trailer**

### LATHES, Bench

Atlas Press Co., 1842 N. Pitcher St., Kalamazoo, Mich.
Elgin Tool Works, 67 N. State St., Elgin, Ill.
Hardinge Bros., Inc., 1418 College Ave., Elmira, N. Y. (Precision.)
Hjorth Lathe & Tool Co., 12 Beacon St., Woburn, Mass. (Precision.)
LeBlond Machine Tool Co., R. K., Madison & Edwards Rds., Cincinnati 8, Ohio.
Rivett Lathe & Grinder, Inc., 20 Riverview Rd., Brighton, Boston, Mass.
Sheldon Machine Co., 4240 N. Knox Ave., Chicago 41, Ill.
South Bend Lathe Works, 425 E. Madison St., South Bend 22, Ind.

### LATHES, Brake Drum

Ammco Tools, Inc., 2118 Commonwealth Ave., North Chicago, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Dixie-Jibo Co., 2004 Mullanphy St., St. Louis 6, Mo.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Seneca Falls Machine Co., 314 Fall St., Seneca Falls, N. Y.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 47, Calif.
Star Machine Tool Co., 201 Sixth St. S.E., Minneapolis 14, Minn.
Sunstrand Machine Tool Co., 2531 Eleventh St., Rockford, Ill.
Van Norman Automotive Equipment Co., 3640 Main St., Springfield 7, Mass.
VanTool, 139 N. 22nd St., Philadelphia 3, Pa.

**LATHES, COMMUTATOR, See Undercutters, Mica**
**LIFT TRUCKS, See Trucks, Lift**

### LIFTS, Portable One End

Automotive Equipment Mfg. Co., 11000 S. Alameda St., Lynwood, Cal.
Bay Mfg. Div., Life Time Products Corp., Box 537-C, Youngstown 1, Ohio.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Branick Mfg. Co. Inc., 2600 Third Ave., Fargo, N. D.
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa.
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.

**LIFTS, TRANSMISSION, See Jacks, Transmissions.**

### LIFTS, Vehicle, Electric

Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa.
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.

Rotary Lift Co., 1054 Kansas St., Memphis 2, Tenn.
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.

### LIFTS, Vehicle, Hydraulic

Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 46, Wis.
Cochin Mfg. Co., J. D., 1440 E. Grand Ave., South San Francisco, Cal. (Also portable.)
Curtis Mfg. Co., Pneumatic Div., 1927 Kienlen Ave., St. Louis 20, Mo.
Gilbert & Barker Mfg. Co., Cold Spring Ave., West Springfield, Mass.
Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa. (Air and electrically operated.)
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Rotary Lift Co., 1054 Kansas St., Memphis 2, Tenn. (Air operated.)
United States Air Compressor Co., 3300 Harvard Ave., Cleveland 5, Ohio.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Pneumatic-hydraulic.)
Wilson, Inc., K. R., Arcade, N. Y. (Rotary.)

### LIFTS, Vehicle, Pneumatic

Automotive Equipment Mfg. Co., 11000 South Alameda St., Lynwood, Calif.
Bay Mfg. Div., Lifetime Products Corp., Box 537, Youngstown, Ohio. (One end.)
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 46, Wis.
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa. (One end.)
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y. (Portable, one end.)

### LIGHTS, See Lamps and Lamp Bulbs

### LIGHTS, Timing

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Neon & power types.)
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y. (Neon type.)
Auto Test, Inc., 600 S. Michigan Ave., Chicago 5, Ill. (Neon & power types.)
Cornwall Quality Tools Co., Mogadore, Ohio. (Power type.)
Dorothea Mechanisms, Inc., Gale, 39-39 63rd St., Woodside, L. I., N. Y.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. (Neon type.)
Electro Products Co., 445 E. 189th St., N. Y. 58, N. Y.
Hanson Co., Harvey E., Lake Blvd. and Commercial St., Paw Paw, Mich. (Power type.)
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Heyer Industries, Inc., 471 Cortlandt St., Belleville 9, N. J.
Kal-Equip Co., 411 Washington St., Otsego, Mich. (Power type.)
King Electric Equipment Co., 9123 Inman Ave., Cleveland 5, Ohio.
Nasa Tool Mfg. Corp., 3427 Locust Corner Rd., Amelia, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. (Neon type.)
Niehoff Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Neon and power types.)
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.
Save Lamp Co., 3687 Ash St., Baltimore 11, Md. (Neon type.)
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio. (Neon and power types.)
Sittler Corp., 18 N. Ada St., Chicago 7, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Neon type.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Neon type.)
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo. (Neon type.)
Tippett Timer, 5822 Helen St., Jennings 21, Mo.
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Tungsten Mfg. Co., 1923 E. 79th St., Chicago 49, Ill. (Neon & power type.)
Weidenhoff Corp., Algona, Iowa. (Neon & power type.)

### LINER, Body, Truck Trailer,

Spring Packing Corp., 332 S. Michigan Ave., Chicago 4, Ill. (Brush-on plastic.)

### LINING, Brake

American Brakeblok Div., American Brake Shoe Co., Maple Rd., East of Crooks Rd., Detroit, Mich.
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill.
Atlas Asbestos Co., 469 Walnut St., North Wales, Pa.
Bendix Products Div., Bendix Aviation Corp., South Bend 20, Ind.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
General Metals Powder Co., 130 Elinor Ave., Akron 5, Ohio.
Grey Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Grizzly Mfg. Div. of MarPro Inc., 700 W. Caroline St., Paulding, Ohio.
Hope Webbing Co., P. O. Box 1495, Providence 1, R. I.
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
Johns-Manville, 22 E. 40th St., New York 16, N. Y.
Lasco Brake Products Corp., 2615 Magnolia St., Oakland, Calif.
Marshall-Eclipse Div. of Bendix Aviation Corp., Box 538, Troy, N. Y.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Molded Materials Div., Carlisle Corp., Gillis Ave., Ridgeway, Pa.
National Brake Block Co., 37-17 57th St., Woodside 77, N. Y.
National Vulcanize Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del. (Fibre.)
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.
Raybestos-Manhattan, Inc., Equip. Sales Div., 75 E. Main St., Stratford, Conn.
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.
Rossendale Buboil Co., 30 Euclid Ave., Newark, N. J.
Russell Mfg. Co., Middletown, Conn.
Scandinavia Belting Co., 744 Broad St., Newark 1, N. J.
Silver Line Brake Lining Corp., 5618 E. Washington Blvd., Los Angeles 22, Calif.
Southern Friction Materials Co., Box 1475, Charlotte, N. C.
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
Universal Friction Materials Div. of Gairing Tool Co., 1700 United Artists Bldg., Detroit 26, Mich.
Wagner Electric Corp., 6470 Plymouth Ave., St. Louis 14, Mo.
Wellington Sears Co., 111 W. 40th St., N. Y. 18, N. Y.
Wellman Co., S. K., 200 Egbert St., Bedford, Ohio.
World Bestos Div. of Firestone Tire & Rubber Co., 1112 S. 25th St., New Castle, Ind.

### LINKS, Shock Absorber

Accurate Products Inc., 135 N. Spring St., Indianapolis, Ind.
Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio.
Badger Mfg. Corp., 1501 W. Polk St., Chicago, Ill.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.
Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Preferred Electric & Wire Co., Bush Term. Bldg. #8, Brooklyn 32, N. Y.
Trayer Products, Inc., E. Clinton St., Elmira, N. Y.
Van Bergen & Greener, Inc., 1619 N. Hayne Ave., Chicago 47, Ill.
Wohlert Corp., 700 E. Grand River Ave., Lansing 5, Mich.

### LINKS, Tire Chain Repair

Campbell Chain Co., York, Pa.
Flower City Specialty Co., 158 Hollenbeck St., Rochester, N. Y.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Nixdorff-Krein Mfg. Co., 916 Howard St., St. Louis 6, Mo.
Peerless Chain Co., Front & Walnut Sts., Winona, Minn.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.
Raymond Mfg. Div. Associated Spring Corp., 226 S. Center St., Corry, Pa.
Roll-O-Matic Chain Co., 200 Wyandotte St., Kansas City 5, W. Mo.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
Taylor Chain Co., S. G., P. O. Box 509-C, Hammond, Ind.
Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill.
Wickwire Spencer Steel, Div. of Colorado Fuel & Iron Corp., 575 Madison Ave., New York 22, N. Y.

### LOAD BINDERS

American Logging Tool Corp., 4203 Union Blvd., St. Louis 15, Mo.
Canton Manufacturing Co., 2408 13 St., N.E., Canton 5, Ohio. (Also exclusive distributor for American Forge & Mfg. Co.) (Ratchet type.)
Canton Malleable Iron, Canton, Ohio.
Durbin-Durco, Inc., 1435 Woodson Rd., St. Louis 14, Mo.
Eagle Mfg. Co., Appleton, Wis.
Jordan Equipment Co., 2526 Wood St., Oakland 7, Calif.
Stacy Mfg. Co., Tiffin, Ohio.

### LOADERS, FRONT END (Construction & Off-Highway)

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
J. I. Case Co. (Terratrac), 700 State St., Racine, Wis.
Caterpillar Tractor Co., Peoria, Zone 8, Ill.
Clark Equipment Co., Construction Machinery Div. (Michigan), P.O. Box 599, Benton Harbor, Mich.
The Frank G. Hough Co. (Payloader), Sunnyside Ave., Libertyville, Ill.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
Jaeger Machine Co., 550 W. Spring St., Columbus 16, Ohio.
Mixermobile Manufacturers Inc. (Scoopmobile), 8027 N.E. Killingsworth St., Portland, Ore.
The Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
Pettibone Mulliken Corp. (Speedall), 4700 W. Division St., Chicago 51, Ill.
Tractomotive, Deerfield, Ill.
The Yale & Towne Mfg. Co. (Trojan), Batavia, N. Y.

### LOADERS, Truck (Elevating Tailgate)

Anthony Co., Streator, Ill.
Cemco Industries, Inc., Galion, Ohio.
Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 65, Cal.
Converto Mfg. Co., 3rd & Green Sts., Cambridge City, Ind.
Curtis Automotive Devices, Inc., Westfield, Ind. (Electric; sole distributor Collins & Associates, 4906 Heuwerth Ave., Cincinnati 38, Ill.)
Daybrook Hydraulic Div. Young Spring & Wire Corp., Bowling Green, Ohio.
Gar Wood Industries, Inc., Wayne, Mich.
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
Hercules Galion Products, Inc., Galion, Ohio.
Marion Metal Products Co., Cheney Ave., Marion, Ohio.
Midwest Body & Mfg. Div. Electrographic Corp., S. Central St., Paris, Ill.
Minneapolis Freeman Mfg. Co., 5610 W. 36th St., Minneapolis 16, Minn.
Perfection Steel Body Co., S. East St., Galion Ohio.
Revolvator Co., U. S. Route 1 at 86th St., North Bergen, N. J.
Stratton Equipment Co., 2030 E. 105th St., Cleveland 6, Ohio (Also side loaders.)
Ven Corp., 2828 Newell St., Los Angeles 39, Cal. (Electric.)
Watson Co., H. S., 1316 67th St., Emeryville, Calif.

### LOCKS, Brake, Hill Holding

Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif.

**LOCKS—continued**

Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn.
Sharp Mfg. Co., 109 W. Columbus St., Nelsonville, Ohio.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.

**LOCKS, Ignition**

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis.
Chicago Lock Co., 2024 N. Racine Ave., Chicago 14, Ill.
Clum Mfg. Co., 601 W. National Ave., Milwaukee 4, Wis.
Detroit Master Products Co., 16490 Woodward Ave., Detroit 3, Mich.
Eagle Lock & Screw Co., S. Main St., Terryville, Conn.
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.
General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y.
Hurd Lock & Mfg. Co., 219 N. Main St., Almont, Mich.
Independent Lock Co., 49 Daniels St., Fitchburg, Mass.
Miller Co., L. B., 336 W. Main St., Stamford, Conn.
Mitchell Specialty Div. Industrial Enterprises Inc., Shelmire & Edmund Sts., Philadelphia 36, Pa.

**LOCKS, Trailer**

Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.
Chicago Lock Co., 2024 N. Racine Ave., Chicago 4, Ill.
Lavin Machine & Mfg. Wks., A. M., Hatboro, Pa. (Trailer-hitch.)

**LP GAS, See Fuels, Engine**

**LUBRICANTS, ENGINE & CHASSIS, See Oils and Lubricants**

**LUBRICANTS, GEAR, See Oils and Lubricants**

**LUBRICANTS, Tire**

American Grease Stick Co., 1146 Hoyt St., Muskegon, Mich.
American Sand-Banum Co., Inc., 9 Rockefeller Plaza, N. Y. 20, N. Y.
Bishman Mfg. Co., Osseo 4, Minn.
Cohutta Talc Co., P. O. Drawer 928, Dalton, Ga.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
National Adhesives Div. of National Starch Products, Inc., 270 Madison Ave., New York 16, N. Y.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.
Western States Mfg. Co., 811 Main St., Sioux City, Iowa.

**LUBRICATORS, Automatic, Vehicle Mounted**

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Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo.

**LUBRICATORS, Hand**

Adams Grease Gun, 88-92 N. First St., Brooklyn 11, N. Y.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Bowen Products Corp., Auburn, N. Y.
Coil Mfg. Co., 1013 N. Fares Ave., Evansville 11, Ind. (Universal joint, clutch and shock absorber.)
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
Dixon Crucible Co., Joseph, Monmouth & Wayne Sts., Jersey City 3, N. J.
Gilbert & Barker Mfg. Co., Cold Spring Ave., West Springfield, Mass.
Gray Co., 54 11th Ave., N. E., Minneapolis 13, Minn.
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
Inter-Continent Mfg. Co., 117 E. 13th St., Chicago 5, Ill.
Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
Noera Mfg. Co., Div. of Chase Brass & Copper Co., 236 Grand St., Waterbury 20, Conn.
Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif.
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill.
Superior Mfg. Co., 13th & Rockland Sts., Philadelphia 41, Pa.
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Wood Co., John, Bennett Pump Div., Broadway & Wood St., Muskegon, Mich.

**LUBRICATORS, Portable, High Pressure, Compressed Air**

Adams Grease Gun, 88-92 N. First St., Brooklyn 11, N. Y.
Aro Equipment Corp., Bryan, Ohio.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Bud-Air Co., R. D. 1, Pulaski, N. Y.
Gray Co., 54 11th Ave., N. E., Minneapolis 13, Minn.
Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif.
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill.
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.

**LUBRICATORS, Portable, High Pressure, Electric**

Adams Grease Gun, 88-92 N. First St., Brooklyn 11, N. Y.
Aro Equipment Corp., Bryan, Ohio.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill.
Wilson, Inc., K. R., Arcade, N. Y.

**LUBRICATORS, Portable, High Pressure, Hand Operated**

Adams Grease Gun, 88-92 N. First St., Brooklyn 11, N. Y.
Aro Equipment Corp., Bryan, Ohio.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Jiffy Lubricator Co., 304 Second Ave., Fargo, N. D.
Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill.
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.
Wayne Pump Co., Wayne-Marvel Div., Salisbury, Md.
Wilson's Sons, Inc., Wm. M., 8th St. & Franconia Ave., Lansdale, Pa.

**LUBRICATORS, Stationary, High Pressure, Compressed Air**

Aro Equipment Corp., Bryan, Ohio.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Gray Co., 54 11th Ave., N. E., Minneapolis 13, Minn.
Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif.
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill.

**LUBRICATORS, Upper Cylinder**

Automotive & Marine Products Corp., 87 Harvard Ave., Boston 34, Mass.
Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y.
Ryroil Co., 122 N. Main St., La Crosse, Wis.
So-Lo Jack Co., Attleboro, Mass.
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.
United States Aviex Corp., 185 Maple St., Niles, Mich.
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.
White Automotive Products, Inc., 1604 Douglas Ave., North Providence 4, R. I.

**MACHINES, Babbitting, Main Bearing & Connecting Rod**

Freeport Machine Works, 120 E. Main St., Freeport, Ill.
Waterbury Tool Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Connecting rod.)

**MACHINES, Bonding, Cracked Cylinders**

K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo. (Also combination bonder and arc welder.)
Moguloid Co. of America, 3520 W. Carroll Ave., Chicago 24, Ill. (Arc.)

**MACHINES, Boring, Main Bearing, Connecting Rod and Camshaft**

(See also Reamers, Main Bearing and Connecting Rod)

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill (Main and camshaft bearing.)
Cedar Rapids Engrg. Co., 902 17th St. NE., Cedar Rapids, Iowa. (Main bearing.)
Ex-Cell-O Corp., 1200 Oakman Blvd., Detroit 32, Mich.
Fulmer Co., C. Allen, 1211 First National Bank Bldg., Cincinnati, Ohio.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Main and camshaft bearing.)
Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Tex. (Connecting rod bearing.)
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Tobin-Arp Mfg. Co., 6400 Penn Ave., S., Minneapolis 23, Minn.
Winona Tool Mfg. Co., 1430 W. Broadway Winona, Minn.

**MACHINES, Boring, Piston Pin Bushing**

Cedar Rapids Engrg. Co., 902 17th St. NE., Cedar Rapids, Iowa.
Ex-Cell-O Corp., 1200 Oakman Blvd., Detroit 32, Mich.
Tobin-Arp Mfg. Co., 6400 Penn Ave., S., Minneapolis, 23, Minn.

**MACHINES, Brake Relining**

Barrett Equipment Co., 2101 Cass Ave., St. Louis, Mo. (Grinders.)
Chicago Rivet & Machine Co., 9603 W. Jackson Blvd., Bellwood, Ill. (Chicago Suburb.) (Grinders; also combination deliner, reliner and grinder.)
Miller Mfg. Co., 17640 Grand River Ave., Detroit 27, Mich.
Shepard-Thomason Co., 2320 W. Gage Ave., Los Angeles 47, Calif. (Combination brake lining and brake shoe grinding.)
Star Machine & Tool Co., 201 Sixth St., S. E., Minneapolis 14, Minn.

**MACHINES, Clutch Rebuilding**

(See also Tools, Clutch Alignment)

Accurate Re-Nu Clutch Div. of MarPro Inc., 168 N. Michigan Ave., Chicago 1, Ill.
Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.
Miller Tool & Mfg. Co., 1725 16th St., Detroit, Mich.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Van Norman Co., Springfield 7, Mass.
Westbrook Industries, Inc., 140 Malvern St., Newark 5, N. J. (Bonding oven and related equipment.)

**MACHINES, FRONT END & AXLE ALIGNMENT, See Gages, Wheel & Axle Alignment**

**MACHINES, Piston Turning and Grinding**

Cedar Rapids Engrg. Co., 902 17th St. NE., Cedar Rapids, Iowa.
Cincinnati Grinders Inc., 4701 Marburg Ave., Cincinnati 9, Ohio (Grinding.)
Landis Tool Co., Sixth St., Waynesboro, Pa. (Grinding.)
Norton Co., 1 New Bond St., Worcester 6, Mass.
Storm-Vulcan Inc., 2225 Burbank St., Dallas 19, Tex.
Van Norman Automotive Equip. Co., 3640 Main St., Springfield 7, Mass.

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Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y.
Dow Chemical Co., 919 Jefferson Ave., Midland, Mich. (Bars, rods, shapes, sheet and plate.)
Federated Metals Div. American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
Niagara Falls Smelting & Refining Div. Continental Copper & Steel Industries, Inc., 2204 Elmwood Ave., Buffalo 23, N. Y.
Vanadium Corp. of America, 420 Lexington Ave., New York 17, N. Y.

### MAGNETOS
American Bosch Div., American Bosch Arma Corp., 3664 Main St., Springfield 7, Mass.
Fairbanks Morse & Co., Magneto Div., Beloit, Wis.
Scintilla Magneto Div., Bendix Aviation Corp., Sherman Ave., Sidney, N. Y.
Wico Electric Co., 42 Phelon Ave., West Springfield, Mass.

### MANIFOLDS, Intake and Exhaust
Almquist Engrg. Co., Milford, Pa. (Dual intake.)
Continental Motors Corp., Muskegon 82, Mich.
Detroit Gasket & Mfg Co., 12640 Burt Rd., Detroit, Mich.
Edelbrock Equipment & Co., 4921 W. Jefferson Blvd., Los Angeles, Calif. (Special intake.)
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Weiand Power & Racing Equip., 2733 San Fernando Rd., Los Angeles 65, Calif.

### MANUAL, Diesel
Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa.

### MAPS
Hearne Bros., National Bldg., Detroit 26, Mich.

### MASKING, Liquid
Acme Quality Paints Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Adhere Inc., 1220 Maple Ave., Los Angeles 15, Calif.
Briggs Mfg. Co., 3675 E. Outer Drive, Detroit 34, Mich.
Dennis Chemical Co., 2701 Papin St., St. Louis 3, Mo.
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.
Martin-Senour Co., 2500 Senour Ave., Chicago 8, Ill.
Park Chemical Co., 8074 Military Ave., Detroit 4, Mich.
Permo Products Co., 1629 Platte St., Denver 2, Colo.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
Swavely Chemical & Varnish Works, 831 Page St., Flint 5, Mich.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.

### MASKING, Tape
Behr-Manning Corp., 4457 Howe St., Troy, N. Y.
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.
Continental Tapes, P. O. Box 256, Cayce, S. C.
Eastman Kodak Co., 343 State St., Rochester, 4, N. Y.
Hampton Mfg. Co., Industrial Tape Div., 111 Cedar St., New Rochelle, N. Y.
Johns-Manville, Dutch Brand Div., 7800 Woodlawn Ave., Chicago 19, Ill.
Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul 6, Minn.
Mystik Adhesive Products Inc., 2635 N. Kildare Ave., Chicago 39, Ill.
Permacel Tape Corp., U. S. Highway #1, New Brunswick, N. J.
Seamless Rubber Co., Industrial Tape Div., 253 Hallock Ave., New Haven 3, Conn.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.
Shuford Mills Inc., 15th St. & Highland Ave., N. E., Hickory, N. C.

### MASKS, Lettering
Dicks Co., C. O., 8544 Grand River, Detroit 4, Mich.

METALIZING EQUIPMENT, See Sprayers, Molten Metal

### METERS, Air Tower, Automatic
Erie Meter Systems, Inc., 1602 Wagner Ave., Erie, Pa.
Gilbert & Barker Mfg. Co., Cold Spring Ave., West Springfield, Mass. (Automatic.)
Romort Mfg. Co., Oakfield, Wis.
Wood Co., John, Bennett Pump Div., Broadway & Wood Sts., Muskegon, Mich.

### METERS, Brake Testing
American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.
Bennett-Feragen 1408 Jerome St., Niles, Mich.
Tapley Products, 53 Park Place, New York 7, N. Y. (Importers.)

### METERS, Exhaust Smoke
Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa.

### MICROMETERS
Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Ammco Tools, Inc., 2130 Commonwealth Ave., North Chicago, Ill. (Brake drum.)
Automotive Service Tools, Inc., 700 Sheridan St., Lansing 6, Mich. (Crankshaft and brake drum.)
Bath & Co., John, 18 Grafton St., Worcester 8, Mass. (Internal.)
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Central Tool Co., 456 Wellington Ave., Cranston 10, R. I.
Do All, 254 N. Laurel Ave., Des Plaines, Ill.
Federal Products Corp., 1144 Eddy St., Providence 1, R. I. (Indicating.)
Keystone Reamer & Tool Co., Millersburg, Pa.
Lufkin Rule Co., Hess Ave., Saginaw, Mich. (Crankshift, inside, outside, etc.)
Millers Falls Co., Greenfield, Mass.
National Acme Co., 170 E. 131st St., Cleveland 8, Ohio
Pratt & Whitney, Charter Oak Blvd., West Hartford 1, Conn.
Rimat Gage Co., 21 W. Dayton St., Pasadena 2, Calif. (Inside.)
Rottler Boring Bar Co., 1221 Poplar Pl., Seattle 44, Wash.
Scherr Co., George, 200 Lafayette St., New York 12, N. Y.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
Swedish Gage Co. of America, 10641 Haggerty Ave., Dearborn, Mich
Tubular Micrometer Co., St. James, Minn.
Van Keuren Co., 176 Waltham St., Watertown, Mass. (Light wave.)

### MIRRORS, Panel, Bus
Acme Specialty Mfg. Co., 2298 Smead Ave., Toledo 6, Ohio.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Standard Mirror Co., 141 Milton St., Buffalo 10, N. Y.

### MIRRORS, Rear View
American Automatic Devices Co., Harrison, Troop and Congress Sts., Chicago 7, Ill.
Anderson Co., 1075 Grant St., Gary 40, Ind.
Anthes Force Oiler Co., Fort Madison, Iowa. (West Coast type.)
Appleton Electric Co., 1701 Wellington Ave., Chicago 13, Ill.
Arrow Safety Devices Co., Mt. Holly, N. J.
Boiser Corp., S. Main St., Cedar Falls, Iowa.
Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn.
Cole Automotive Products Co., P. O. Box 56, Alfred St. Station, Detroit, Mich.
"Defrosto" Mirrors, Inc., 11298 S. Alameda St., Lynwood, Calif.
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y.
Doray Lamp Co., 1458 S. Michigan Ave., Chicago, Ill.
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.
Grote Mfg. Co., Lafayette & Grandview Ave., Bellevue, Ky.
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Libbey-Owens-Ford Glass Co., 608 Madison Ave., Toledo 3, Ohio.
Prutsman, Ted., 1606 E. 88th St., Los Angeles 2, Calif.
Sparton Automotive Div. of Sparks-Withington Co., Jackson, Mich. (Outside truck.)
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis. (Truck.)
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

### MOLDS, Tire Recapping and Retreading
Bacon American Corp., 718 S. Elliott St., Muncie, Ind.
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 1, Cal. (Sectional.)
Heintz & Co., James C., 3738 W. 14th St., Cleveland 11, Ohio.
Super Mold Corp. of Calif., 420 N. Sacramento St., Lodi 2, Calif.

MONORAILS—See Cranes, Monorail

MOTOR OIL, See Oils & Lubricants (Engine & Chassis)

### MOTORS, Starting, Air
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
GMC Truck & Coach Div., General Motors Corp., 660 So. Blvd., E., Pontiac 11, Mich.
Gardner-Denver Co., S. Front St., Quincy, Ill.
Ingersoll Rand Co., 11 Broadway, New York 4, N. Y.
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio.

### MOTORS, Starting, Electric
American Generator & Armature Co., 6100 W. Grand Ave., Chicago 39, Ill.
Arrow Armatures Co., 15 Fordham Rd., Boston 34, Mass. (Rebuilt.)
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Electric Auto-Lite Co., Toledo 1, Ohio.
General Armature & Mfg. Co., Box 370, Lock Haven, Pa.
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio. (For gas & diesel engines.)

### MOTORS, Starting, Hydraulic
Detroit Diesel Engine Div., General Motors Corp., 13400 W. Outer Drive, Detroit 28, Mich.

### MOUNTINGS, Rubber, Insulated
Accurate Products Inc., 135 N. Spring St., Indianapolis, Ind.
Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio. (Engine.)
Atlantic India Rubber Works, Inc., 571 W. Polk St., Chicago 7, Ill.
Bushings, Inc., 4558 Coolidge Highway, Royal Oak, Mich.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Clevite Harris Products Inc., 6545 Carnegie Ave., Cleveland 3, Ohio. (Distributors to replacement trade, Clevite Service Inc., 6545 Carnegie Ave., Cleveland 3, Ohio.)
Doan Mfg. Div. of Anchor Industries Inc., 1725 London Road, Cleveland 12, Ohio.
Ertel Products Co., Repl. Div. of Ertel Mfg. Corp., 1402 E. 20th St., Indianapolis, Ind.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
General Tire & Rubber Co., Industrial Products Div., Wabash, Ind.
Goodrich Industrial Prods. Co., B. F., 500 S. Main St., Akron 18, Ohio. (Engine and radiator.)
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
Looch & Co., R. J., 343 N. Gay St., Baltimore, Md.
Lord Mfg. Co., 1635 W. 12th St., Erie, Pa. (Shear type.)
M B Mfg. Co., 1060 State St., New Haven 11, Conn.
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Roberts Toledo Rubber Co., 4143 Monroe St., Toledo 13, Ohio.

Rodic Chemical & Rubber Corp., Allen Ave., New Brunswick, N. J.
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
Stillman Rubber Co., 5811 Marilyn Ave., Culver City, Calif.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. (Engine.)
Wheel Parts & Mfg. Co., 852 Fourth Ave., New York 10, N. Y.
Wohlert Corp., 700 E. Grand Ave., Lansing 5, Mich.

**MUD, Flaps, See Guards, Splash**

## MUFFLERS, Exhaust

AP Parts Corp., AP Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio. (To order.)
Alexander-Tagg Industries, Inc., Jacksonville Rd. & Summit Ave., Hatboro, Pa. (To order.)
Arvin Industries, Inc., 13th St. & Big Four R. R., Columbus, Ind.
Armco Steel Corp., 2586 Curtis St., Middletown, Ohio.
Buffalo Pressed Steel Co., 460 N. Meridan Rd., Youngstown 9, Ohio.
Coachcraft Ltd., 9015 Santa Monica Blvd., Hollywood 46, Calif.
Defiance Mfg. Co., Defiance, Ohio.
De Koven Mfg. Co., 1201 Michigan Blvd., Racine, Wis.
Donaldson Co., Inc., 666 Pelham Blvd., St. Paul 14, Minn.
Douglas Muffler Mfg. Co., 5636 E. Shull St., Bell Gardens, Calif.
Ero Mfg. Co., 714 W. Monroe St., Chicago, Ill.
Goerlich's, 619 Smith St., Toledo 1, Ohio.
Grand Automotive Prods., 2055 N. Ruby St., Melrose Park, Ill.
Haviland Co., 1008 S. Jackson St., Arnold, Defiance, Ohio.
Hayes Industries, Inc., Wildwood and Fern Aves., Jackson, Mich.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lindy's, Inc., 3381 E. Olympia St., Los Angeles 46, Calif.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.
MacKenzie Muffler Co., 460 N. Meridian Rd., Youngstown 9, Ohio.
Maremont Muffler Div. of Mar Pro Inc., Maremont Bldg., 168 N. Michigan Ave., Chicago 1, Ill. (Truck & bus.)
Nelson Muffler Corp., Stoughton, Wis. (For buses, trucks and tractors.)
Ohio Parts, Inc., 307 Perry St., Defiance, Ohio.
Oldberg Mfg. Co., 620 N. Seventh St., Grand Haven, Mich.
Oxy-Catalist, Inc., Wayne, Pa. (Catalist muffler for fork life truck.)
Porter Muffler Mfg. Co., 11820 W. Olympia Blvd., Los Angeles 64, Calif.
Powell Muffler Co., 4235 W. 42nd Pl., Chicago 32, Ill.
Pratt Muffler Div. of Mar Pro Inc., 168 N. Michigan Ave., Chicago 1, Ill.
Riker Mfg. Inc., 4901 Stickney Ave., Toledo 12, Ohio. (For trucks and buses.)
Tech Industries, 679 Oakland Park Ave., Columbus, Ohio. (Truck & bus.)
Walker Mfg. Co. of Wis., 1201 Michigan Ave., Racine, Wis. (Individually tuned.)

## NOZZLES, Air

**(See also Chucks, Air, Tire Inflating)**

Acme Air Appliances Co., 205 Newman St., Hackensack, N. J.
Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich.
Amseco, Inc., 145 S. Monterey Ave., Villa Park, Ill.
Aro Equipment Corp., Bryan, Ohio.
Barmotive Products, Inc., 440 Peralta Ave., San Leandro, Calif.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.
Clements Mfg. Co., 6650 S. Narragansett Ave., Chicago, Ill.
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif.
Druge Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Cal. (Sole distributor Tru-Flate Inc., 888 92nd Ave., Oakland 3, Calif.)
Dutton Lainson Co., Mfg. Div., Hastings, Neb.
Electric Sprayit Div., Thomas Industries, Inc., 14th & Illinois Sts., Sheboygan, Wis.
Gilmour Mfg. Co., N. Center Ave., Somerset, Pa.
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill.
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio.
Lincoln Engrg. Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
Lonn Mfg. Co., 2017 W. 18th St., Indianapolis 7, Ind.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Norgren Co., C. A., 3400 S. Elati St., Englewood, Calif.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Planet Metal Products Corp., 964 Dean St., Brooklyn 38, N. Y.
Romort Mfg. Co., Oakfield, Wis.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Cal.
Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
Superior Pneumatic & Mfg., Inc., 4758 Warner Rd., Cleveland 25, Ohio.
Thomas Industries, Inc., Electric Sprayit Div., 14th & Illinois Sts., Sheboygan, Wis.
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.

## NOZZLES, Fuel

Buckeye Iron & Brass Works, Dept. C, Box 883, Dayton 1, Ohio.

**NOZZLES, PAINT SPRAY, See Sprayers, Paint, Varnish and Lacquer**

## NUTS, Lock and Self-Locking

Accurate Products, Inc., 135 N. Spring St., Indianapolis, Ind.
Allen Mfg. Co., 133 Sheldon St., Hartford 2, Conn.
Automatic Nut Corp., 16th & Willow Sts., Lebanon, Pa.
Boots Aircraft Nut Corp., Newton Turnpike, Norwalk, Conn. (Self-locking.)
Ross Bolt & Nut Co., 3403 W. 47th, Chicago 32, Ill.
Canady-Wiley Mfg. Co., P. O. Box 693, Huntington Park, Calif. (Safety ring.)
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
Delron Co., 5224 Southern Ave., South Gate, Calif. (Self-locking high temperature for manifolds, superchargers, etc.)
Eaton Mfg. Co. (Reliance Spring Washer Div.), Massillon, Ohio.
Elastic Stop Nut Corp. of America, 2330 Vauxhall Rd., Union, N. J. (Self-locking.)
Greer Stop Nut Co., 2622 W. Flournoy St., Chicago 12, Ill.
Gries Reproducer Corp., Beechwood Rd. & Second St., New Rochelle, N. Y. (Nylon insert.)
Grip Nut Co., South Whitley, Ind.
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Lamson & Sessions Co., 5000 Tiedeman Rd., Cleveland 9, Ohio.
MacLean-Fogg Lock Nut Co., 5535 N. Walcott Ave., Chicago 40, Ill.
National Machine Products Co., 44225 Utica Rd., Utica, N. Y.
National Screw & Mfg. Co., 2440 E. 75th St., Cleveland 4, Ohio.
Nylok Corp., 611 Industrial Ave., Paramus, N. J. (Licenses.)
Palnut Co., 54 Glen Rd., Mountainside, N. J. (Combination lock washer and nut.)
Prestole Corp., 1351 Miami St., Toledo 5, Ohio.
Republic Steel Corp., Republic Bldg., Cleveland, Ohio. (Licensors.)
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. (Licenses.)
SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa. (Lock.)
Security Locknut Corp., 1800 N. 15th Ave. Melrose Park, Ill.
Shakeproof Div. of Illinois Tool Works, St. Charles Rd., Elgin, Ill.
South Chester Corp., Southco Div., 228 Industrial Highway, Lester, Pa.
Standard Locknut & Lockwasher Co., 2250 Valley Ave., Indianapolis 18, Ind. (For ball and roller bearings.)
Standard Pressed Steel Co., P. O. Box 395, Jenkintown, Pa. (Self-locking.)
Thompson-Bremer & Co., 228 N. La Salle St., Chicago 1, Ill.
Tinnerman Products, Inc., 8700 Brookfield Rd., Cleveland 13, Ohio. (Self-locking.)
Townsend Co., New Brighton, Pa.
United-Carr Fastener Corp., 31 Ames St., Cambridge 42, Mass.
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.
Waldes-Kohinoor, Inc., 47-16 Austel Pl., Long Island City 1, N. Y.
Waterbury Pressed Metal Co., 300 Chase Ave., Waterbury, Conn.
Whittet-Higgins Co., P. O. Box 1613, Providence 1, R. I. (Lock, for ball and roller bearings.)

## ODOMETERS

**(See also Speedometer)**

Actuator Products Corp., 40 Nashua St., Woburn, Mass.
Apcor Sales Division, 13341 Livernois Ave., Detroit 38, Mich.
Barbour-Stockwell Co., 205 Broadway, Cambridge 39, Mass.
Engler Instrument Co., 250 Culver Ave., Jersey City 5, N. J.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill.
United States Taximeter Co., 514 W. 54th St., New York 19, N. Y.
Veeder-Root, Inc., 20 Sargeant St., Hartford 2, Conn.

## OIL ANALYSIS KITS

Gerin Corp., P. O. Drawer 653, Red Bank, N. J.
Shell Oil Co., 50 West 50th St., New York 20, N. Y.
Wicks Accessories Corp., Gastonia, N. C.

**OILS, CRANKCASE, ADDITIVES, See Compounds, Crankcase, Sludge Removing**

## OILS AND LUBRICANTS, Engine and Chassis

Atlantic Refining Co., 260 S. Broad St., Philadelphia 1, Pa.
Cities Service Oil Co., 60 Wall Tower, New York, N. Y.
California Co., Denver 1, Colo.
California Oil Co., Perth Amboy, N. J.
Climax Molybdenum Co., 500 Fifth Ave., New York 36, N. Y.
Continental Oil Co., Continental Oil Bldg., Ponca City, Okla.
Daubert Chemical Co., 333 N. Michigan Ave., Chicago 1, Ill.
D-X Sunray Oil Co., 907 S. Detroit Ave., Tulsa 2, Okla.
Emerol Mfg. Co., 242 W. 69th St., New York, N. Y.
Esso Standard Oil Co., Esso Bldg., 15 W. 51st St., New York, N. Y.
Fiske Brothers Refining Co., Lubriplate Div., Newark 5, N. J.
Freedom-Valvoline Oil Co., Freedom, Pa.
Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa. (Also motor flush.)
Imperial Oil & Grease Co., 6505 Wilshire Blvd., Los Angeles 48, Calif.
Kendall Refining Co., 77 N. Kendall St., Bradford, Pa.
Lion Oil Co., El Dorado, Ark.
Lubrication Engineers, Inc., Fort Worth, Texas.
Lubriplate Div., Fiske Brothers Refining Co., Newark 5, N. J.
Mac Millan Petroleum Corp., 530 W. 6th St., Los Angeles 13, Calif.
Mid-Continent Petroleum Corp., P. O. Box 381, Tulsa 2, Okla.
Moly Motor Products Corp., 1155 Broadway, New York, N. Y.
Ohio Oil Co., Findlay, Ohio.
Pennsylvania Refining Co., 2686 Lisbon Rd., Cleveland 4, Ohio.
Pennzoil Co., Oil City, Pa.
Permatex Company, Inc., 300 Broadway, Huntington Station, New York, N. Y.
Phillips Petroleum Co., Bartlesville, Okla.
Pure Oil Co., 35 E. Wacker Dr., Chicago 1, Ill.
Quaker State Oil Refining Co., Oil City, Pa.
Shell Oil Co., 100 Bush St., San Francisco 6, Calif.
Shell Oil Co., 50 W. 50th St., New York, N. Y.
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
Socony Mobil Oil Co., 150 E. 42nd St., New York 17, N. Y.
Sonneborn Sons, L., 300 Fourth Ave., Amalie Div., New York.
Standard Oil Co. of California, 225 Bush St., San Francisco 20, Calif.

### OILS—continued

Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago 80, Ill.
Standard Oil Co. of Texas, El Paso, Texas.
Sun Oil Co., 1608 Walnut St., Philadelphia, Pa.
Texas Co., 135 E. 42nd St., New York, N. Y.
Tide Water Associated Oil Co., 17 Battery Place, New York 4, N. Y.
Union Oil Co. of Calif., Union Oil Bldg., Los Angeles 17, Calif.
Valvoline Oil Co., Freedom, Pa.
Warren Refining & Chemical Co., Cleveland 15, Ohio.
Waverly Petroleum Products Co., 1724 Chestnut St., Philadelphia 3, Pa.
Wolf's Head Oil Refining Co., Oil City, Pa.

**OIL CANS, See Cans, Oiling**
**OIL CHANGERS, See Drainers, Crankcase Oil**
**OIL FILTERS, See Filters, Oil**
**OIL AND GREASE ABSORBENTS (Floor), See Absorbents, Oil & Grease (Floor)**
**OIL RECLAIMERS, See Reclaimers, Crankcase Oil**
**OIL RETAINING RINGS & SEALS, See Retainers, Oil & Grease**
**OIL TANKS, See Tanks and Systems, Gasoline and Oil Storage; also Tanks, Oil (Portable)**
**OIL TESTING INSTRUMENTS, See Viscosimeters**
**OILS, PENETRATING, See Rust Prevenatives**
**OILERS, UPPER CYLINDER, See Lubricators, Upper Cylinder**

### OILS, Upper Cylinder

Acheson Colloids Co., 1925 Washington Ave., Port Huron, Mich.
Actane Chemical Co., 3617 Haverford Ave., Philadelphia 4, Pa.
Alox Corp., Buffalo Ave., & Iriquois St., Niagara Falls, N. Y.
Atlantic Refining Co., 260 S. Broad St., Philadelphia 1, Pa.
Automotive & Marine Products Corp., 87 Harvard Ave., Boston 34, Mass.
Bardahl Mfg. Corp., 1400 P. 52nd St., Seattle 7, Wash.
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Bell Laboratory, Inc., 2421 Kilgora St., Orlando, Fla.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Carbide & Carbon Chemicals Corp., 30 E. 42nd St., New York 17, N. Y.
Castoroil Products, Inc., 145 Alexander St., Yonkers 2, N. Y.
Celco Corp., 110 E. 42nd St., New York 17, N. Y.
Champion Products, Inc., P. O. Box 291, Stephenville, Texas.
Cristy Chemical Corp., 21 Putnam Lane, Worcester 4, Mass.
Curran Corp., S. Canal St., Lawrence, Mass.
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa.
Daubert Chemical Co., 333 N. Michigan Ave., Chicago 1, Ill.
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y.
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Feenom Laboratories, 521 Marion E. Taylor Bldg., Louisville 2, Ky.
Friction Proof Oil Corp., 200 Fifth Ave., New York 10, N. Y.
Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
Grafo Colloids Corp., Grafo Bldg., 310 Wilkes Place, Sharon, Pa.
Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa.
Gunk Chicago Co., 3447 W. Madison St., Chicago 24, Ill.
Heet Div. of Demert & Dougherty, Inc., 3001 W. 47th St., Chicago 32, Ill.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa.
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind.
Kano Laboratories, 1000 S. Thompson Lane, Nashville 11, Tenn.
Lubaid Co., 155 E. Kilborn St., Milwaukee 1, Wis.
Lubri-Gas International, Inc., 221 N. La Salle St., Chicago 1, Ill.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Mergraf Oil Products Co., P. O. Box 95, Northville, Mich.
National Refining Co., 1808 Standard Bldg., Cleveland 1, Ohio.
Octane Chemical Co., 3617 Haverford Ave., Philadelphia 4, Pa.
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.
Protektoil Corp., 601 W. 26th St., New York 1, N. Y.
Purfex Mfg. Co., Box 118, Collegeville, Pa.
Pyroil Co., 122 Main St., La Crosse, Wis.
Radiator Specialty Co., 1400 W. Ind. Blvd., Charlotte 1, N. C.
Randall Products Mfg. Co., 2095 Broadway, New York 23, N. Y.
Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa.
Rust Master Chemical Corp., 50 Creighton St., Boston, Mass.
Service Supply Co., 1115 Seventh St., Denver 2, Colo.
Shaler Co., Waupun, Wis.
Sonneborn Sons, Inc., L., Amalie Div., 300 Fourth Ave., New York 10, N. Y.
Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago 80, Ill.
Stewart-Warner Corp., Alemite Corp, 1826 Diversey Pkwy, Chicago 14, Ill.
Swan-Finch Oil Co., 338 Hudson St., Hackensack, N. J.
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 16, Mo.
United States Aviex Co., 1350 Maple St., Niles, Mich.
V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.
Warehouse Distributors Co., 3810 N. 19th St., Phila. 40, Pa.
Warren Refining & Chemical Co., 750 Prospect Ave., Cleveland 15, Ohio.
Warwick Laboratories Co., 334 Cleveland St., Brooklyn 8, N. Y.
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J.
White & Bagley Co., 100 Foster St., Worcester, Mass.
Wilbur & Williams & Co., 130 Lincoln St., Brighton, Mass.
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
Zip Abrasive Co., 1360 W. Ninth St., Cleveland 13, Ohio.

### OPENERS, Bus Door

Bendix Products Div., Bendix Aviation Corp., South Bend 20, Ind.
Consolidated Metal Products Corp., 418 N. Pearl St., Albany, N. Y. (Pneumatic, electric and hydraulic.)
Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., 2734 Tennyson Rd., Cleveland 4, Ohio. (Manual.)
Midland-Ross Corp., Owosso Div., 490 S. Chestnut St., Owosso, Mich. (Air and electro-pneumatic.)
National Pneumatic Co., 125 Amory St., Boston 19, Mass.
Porter Co., H. K., Forge & Fittings Div., Cleveland Forge Works, 3200 E. 79th St., Cleveland 4, Ohio.

### PACKERS, Bearing

Aro Equipment Corp., Bryan, Ohio.
Bennett-Feragen, 1408 Jerome St., Miles, Mich.
Gray Co., 54 11th Ave., N. E. Minneapolis 13, Minn.
Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago, Ill.
Turk Co., Wm., 11070 S. Alameda St., Lynwood, Calif.

### PADS, Pedal

Accurate Products, Inc., 135 N. Spring St., Indianapolis, Ind.
American Automatic Devices Co., Harrison, Throop & Congress Sts., Chicago 7, Ill. (Brake & clutch.)
American Felt Co., Glenville, Conn.
Anchor Rubber Products Inc., 1725 London Rd., Cleveland 12, Ohio.
Doan Mfg. Corp. Div. of Anchor Industries Inc., 1725 London Rd., Cleveland 12, Ohio.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
Kravex Mfg. Corp., 634 Prospect Ave., Brooklyn, N. Y.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Monarch Rubber Co., Hartville, Ohio.
Moore & Co., Samuel, Mantua, Ohio.
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio.
Porter Co., H. K., Forge & Fittings Div., Cleveland Forge Works, 3200 E. 79th St., Cleveland 4, Ohio.
Radiator Specialty Co., 1400 W. Independence Blvd., Charlotte, N. C.
Roberts Toledo Rubber Co., 4143 Monroe St., Toledo 13, Ohio.
Rodic Chemical & Rubber Corp., Allen Ave., New Brunswick, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Visionade Mfg. Co., 200 Kosciusko St., Brooklyn 16, N. Y.

**PAINT MASKING, See Masking, Liquid and Tape**
**PAINT SPRAY BOOTHS, See Booths, Spraying (Paint and Varnish)**
**PAINT SPRAYERS, See Sprayers, Paint**
**PAINT REMOVERS, See Removers, Paint Enamel and Varnish**
**PAINTS, See Enamels; also Lacquer**

### PAINTS, Acid-Resisting

Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn.
Hock Paints Inc., Box 190, Phoenixville, Pa.
Markal Co., 3052 W. Carroll Ave., Chicago 12, Ill.
Prufcoat Laboratories, Inc., 63 Main St., Cambridge 42, Mass.
Quigley Co., 415 Madison Ave., New York 17, N. Y.
Sauereisen Cements Co., Sharpsburg Sta., Pittsburgh 15, Pa.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Stonhard Co., 1306 Spring Garden St., Philadelphia 23, Pa.
Vita-Var Corp., 46 Albert Ave., Newark, N. J.

### PAINTS, Alkali-Resisting

Markal Co., 3052 W. Carroll Ave., Chicago 12, Ill.
Prufcoat Laboratories, Inc., 63 Main St., Cambridge 42, Mass.
Quigley Co., 415 Madison Ave., New York 17, N. Y.
Sherwin-Williams Co., 101 Prospect Ave. N. W., Cleveland 1, Ohio.
Vita-Var Corp., 46 Albert Ave., Newark, N. J.

### PAINTS, Aluminum and Bronze

Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa. (Pigments for aluminum paint.)
Aluminum Industries, Inc., 3670 Werk Rd., Cincinnati 11, Ohio.
Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio.
Battenfield Grease & Oil Corp., 3148 Roanoke Rd., Kansas City 8, Okla. (Aluminum.)
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo.
Forbes Finishes Div., Pittsburgh Plate Glass Co., 2800 W. 148th St., Cleveland 11, Ohio. (Aluminum.)
Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn. (Aluminum.)
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago 16, Ill.
Interstate Enamel & Varnish Co., 323 W. 15th St., Indianapolis, Ind.
Modene Paint Co., 305 Eastern Ave., Chelsea 50, Mass.
Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. (Aluminum.)
Plastic-Kote, Inc., 9801 Harvard Rd., N.W., Cleveland 5, Ohio. (Aluminum.)
Reynolds Metals Co., 3rd and Grace Sts., Richmond 19, Va. (Aluminum pigment powders and paste.)
Sheffield Bronze Paint Corp., 17814 Waterloo Rd., Cleveland 19, Ohio.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.

### PANELS, Plywood

Evans Products Co., 13101 Eckles Rd., Plymouth, Mich.
Georgia-Pacific Plywood Co., Equitable Bldg., Portland 4, Ore.
Harbor Plywood Corp., Box 940, Aberdeen, Wash. (Douglas fir.)

THE MOST IMITATED PISTON IN THE WORLD...

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SILV-O-LITE

BETTER PISTONS SINCE 1922

DUALOY

FACTORY WAREHOUSE STOCKS

**CAMBRIDGE, MASS.**—ASSOCIATED PARTS CORPORATION, 733 Concord Ave.; **L. I. CITY, N. Y.**—EASTERN WAREHOUSE SERVICE, Inc., 35-13, 37th Ave.; **CHARLOTTE, N. C.**—L. S. SLOOP, 1727 East 7th St.; **ATLANTA, GA.**—JOBBER'S SERVICE, 523 Simpson Street, N.W.; **CHICAGO, ILL.**—AUTOMOTIVE WAREHOUSING, 2645 South Wabash Ave.; **ST. LOUIS, MO.**—AUTOMOTIVE WAREHOUSING CO., 3150 Locust Blvd.; **DALLAS, TEX.**—UNITED WAREHOUSES, INC., 9012 Sovereign Row; **SAN ANTONIO, TEX.**—SAN ANTONIO PARTS WAREHOUSE, 408 South Flores St.; **DENVER, COLO.**—WAREHOUSE SERVICE CO., 1138 - 8th St.; **PHOENIX, ARIZ.**—AUTOMOTIVE WAREHOUSING SERVICE, 620 W. Van Buren St.; **LOS ANGELES, CALIF.**—GENE'S DISTRIBUTING CO., 2720 S. San Pedro St.; **PORTLAND, ORE.**—AUTOMOTIVE DISTRIBUTING CO., 351 N. W. 12th Ave.; **SEATTLE, WASH.**—EVERGREEN WAREHOUSE DIST., INC., 620 East Pike St.

**PANELS—continued**

**Haskelite Mfg. Corp., 701 Ann St. N.W., Grand Rapids 2, Mich. (Laminated, resin-faced, metal-covered, laminated plastic faced.)**
**Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill. (Metal covered.)**
**Technical Ply-Woods Sales, 6756 Crandon Ave., Chicago 49, Ill.**
**United States Plywood Corp., Weldwood Bldg., 55 W. 44th St., New York 18, N. Y.**

**PANELS, STEEL, See Steel, Sheet, and Body Parts, Pre-Shaped**

## PARTS, Brake

Accurate Products, Inc., 135 N. Spring St., Indianapolis, Ind.
**Aero Mfg. & Machining Co., 2724 Ninth Ave., Muskegon Heights, Mich. (Hydraulic.)**
**Anderson Co., O. L., 1347 E. Fort St., Detroit 2, Mich.**
**Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.**
**Bendix Products Div., Bendix Aviation Corp., South Bend 20, Ind. (Hand control for vacuum braking.)**
**Bendix Westinghouse Automotive Air Brake** Co., 901 Cleveland Road, Elyria, Ohio. **(Air conversion kits.)**
**Berg Mfg. & Sales Co.,** 1712 S. Michigan Blvd., Chicago 16, Ill.
**Brake Parts Specialty, 1914 W. Washington Blvd., Los Angeles 18, Calif. (Wheel cup expanders.)**
Chilton Metal Products Inc., 300 Breed St., Clifton, Wis. (Tanks for power brakes.)
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Eis Automotive Corp., Box 701, Middletown, Conn. (Hydraulic and mechanical; also master and wheel cylinders.)
**Fawick Brake Div., Fawick Corp., 9921 Clinton Rd., Cleveland 11, Ohio. (Master cylinder.)**
**General Tire & Rubber Co., Industrial Prods. Div., Wabash, Ind. (Hydraulic.)**
**Gilpak Automotive Products Div. of Packer Auto Parts, Inc., Roselle, N. J. (Hydraulic.)**
**Goshen Rubber Co., 609 E. Iowa St., Goshen, Ind. (Hydraulic cups and boots.)**
**Hydraulic Specialties Co., 819 E. Ferry St., Buffalo 11, N. Y. (Hydraulic pressure limiting valves.)**
**Judsen Rubber Works, Inc., 4107 W. Kinzie St., Chicago 24, Ill. (Hydraulic rubber.)**
**Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 34, Mich. (Vacuum power brake valves and chambers.)**
**Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. (Hydraulic.)**
Lisle Corp., Brake Div., 805 E. Main St., Clarinda, Iowa. (Master & wheel cylinder.)
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. **(Cylinder cups.)**
**Master Parts Div. of Airtex Products, Inc., Fairfield, Ill. (Hydraulic master and wheel cylinders.)**
Midland-Ross Corp., Owosso Div., 490 S. Chestnut St., Owosso, Mich. (Air and vacuum conversion valve kits.)
**Minnesota Automotive, Inc., 1101 N. Front St.,** Mankato, Minn. (Master cylinders.)
**Moraine Products, Div. of General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. (Wheel and master cylinders.)**
**Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. (Hydraulic master wheel cylinder assemblies.)**
**National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. (Hydraulic.)**
**Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Hydraulic.)**
**Otto Items, Inc., 1200 Reco Ave., Kirkwood 22, Mo. (Hydraulic.)**
**Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.**
Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.
**Preferred Electric & Wire Co., Bush Terminal Bldg. #8, Brooklyn 38, N. Y.**
**Raybestos-Manhattan, Inc., Equip. Sales Div.,** Stratford, Conn.
Signal-Stat Corp., Signal-Stat Bldg., 523 Kent Ave., Brooklyn 11, N. Y. (Hydraulic cups.)
Thermoid Co., Whitehead Rd., Trenton 6, N. J. **(Diaphragm.)**
**United Metal Craft Co., 800 Lowell St., Ypsilanti, Mich. (Power brake tanks.)**
**United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill. (Cylinders.)**
Vari-Products Co., 2450 S. Prairie Ave., Chicago 16, Ill. (Vacuum tanks.)
Velvas, Inc., 3534 W. Pierce St., Milwaukee 15, Wis. (Vacuum power and air, for trucks and trailers.)
**Wagner Electric Corp., 6400 Plymouth Ave.,** St. Louis 14, Mo. (Master cylinders.)
Weatherhead Co., 128 W. Washington Blvd., Fort Wayne, Ind.
**Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y. (Hydraulic.)**

**PARTS, CARBURETOR, See Carburetor Parts**

## PARTS, Clutch

Accurate Re-Nu Clutch, Div. of Mar Pro Inc., 168 N. Michigan Ave., Chicago 1, Ill. (Pressure assembly component parts.)
Circle Z, RFD No. 2, Pomfret Center, Conn.
**Dorman Products, Inc., 1004 Sycamore St.,** Cincinnati 2, Ohio. (Diaphragms, levers, release springs, etc.)
**Elgin Machine Works, 412 N. State St., Elgin, Ill.**
**Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)**
**Lipe-Rollway Corp., 806 Emerson Ave., Syracuse 4, N. Y.**
**Merit Products Co., 121 W. Florence Ave., Los Angeles 3, Calif. (Sleeves.)**
**Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.**
**Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill. (Clutch cover assembly parts.)**
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
**Rockford Clutch Div. Borg-Warner Corp., 1319-18th Ave., Rockford, Ill.**
**Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.**

**PARTS, DISTRIBUTOR, See Parts, Magneto, Coil and Distributor**

## PARTS, Front End Suspension

**Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.**
**Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.**
Chrysler Corp., Box 1658, Detroit 31, Mich.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Products Co., Repl. Div. of Ertel Mfg. Corp., 1402 E. 20th St., Indianapolis, Ind.
Gilpak Automotive Products, Div. of Packer Auto Parts Inc., Roselle, N. J.
**Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.**
**Master Parts Div. of Airtex Products, Inc., Fairfield, Ill.**
**McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo.**
**Moog Industries, 6650 Easton Ave., St. Louis 14, Mo.**
**Neapco Products, Inc., South & Cross Sts., Pottstown, Pa.**
**Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.**
**Republic Engrg & Mfg. Co., 6565 Wells Ave., St., Louis 14, Mo.**
**Saginaw Steering Gear, Div. of General Motors Corp., 3900 Holland Rd., Saginaw, Mich.**
Thompson Products, Inc., 2355 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Div. Thompson Products, Inc., 6402 Cedar Rd., Cleveland 3, Ohio.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

## PARTS, Fuel Pump

Accurate Products, Inc., 135 N. Spring St., Indianapolis, Ind. (Push rods, etc.)
**Airtex Automotive Div. of Airtex Products, Inc., Fairfield, Ill.**
Alloy Mfg. Co., 3202 S. Shields Ave., Chicago 16, Ill.
**American Motor Products Co., Fond du Lac, Wis.**
**Hygrade Products Div., Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, N. Y.**
**Kem Mfg. Co., 20-21 Dagaraw Rd., Fair lawn, N. J.**
**Master Parts, Div. of Airtex Products, Inc., Fairfield, Ill.**
**Mica Insulator Co., Broadway, Schenectady, N. Y. (Diaphragms.)**
**National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.**
**Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y. (Diaphragms, etc.)**
**United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill. (For A. C. pumps.)**
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis.
Wohlert Corp., 700 E. Grand River Ave., Lansing 5, Mich. (Rods.)

## PARTS, Generator

**International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill.**
**Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.**
**National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.**
**Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)**
**Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.**
**V-J Industries, Inc., 720 E. Washington St., Indianapolis, Ind.**
Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y.

**PARTS, LIST, See List, Parts**

## PARTS, Ignition

**(See also Coils, Condensors, Distributors, Points (Ignition))**

American Hard Rubber Co., Div. Amerace Corp., Ace Rd., Butler, N. J.
**American Motor Products Co., Fond du Lac, Wis (Distributor rotors.)**
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
**D.S.M. Electric Co., 6209 Hamilton Ave., Detroit 2, Mich.**
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Echlin Mfg. Co., U. S. Route 1, Branford, Conn.
Electric Auto-Lite Co., Parts & Service Div., Toledo 1, Ohio. (Distributor caps and rotors.)
**F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Distributor caps and rotors.)**
Gilpak Automotive Products Div. of Packer Auto Parts Inc., Roselle, N. J. (Distributor rotors.)
Gries Reproducer Corp., Beechwood Ave. & Second St., New Rochelle, N. Y. (Nylon distributor parts.)
**Guaranteed Parts Co., Seneca Falls, N. Y. (Rotors.)**
Holley Carburetor Co., 11955 E. 9 Mile Rd., Van Dyke, Mich. (Caps & rotors.)
Igniter Co., 1635 El Camino Real, Redwood City, Calif.
**Kem Mfg. Co., 20 Wagaraw Rd., Fair Lawn, N. J.**
**Keystone Carbon Co., 1935 State St., St. Marys, Pa.**
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. (Caps and rotors.)
M D Parts Mfg. Co., 4395 Olympic Blvd., Los **Angeles. Calif. (Distributor caps and rotors.)**
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Mallary Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich. (Magneto.)
**National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. (Coil and distributor.)**
**Niehoff & Co., C. E., 4925 Lawrence Ave., Chicago, Ill.**
**P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.**
**Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Distributor plates, caps, rotors, etc., sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)**
**Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.**
**Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich. (Distributor caps and nipples.)**
**Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.**
**Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill. (Distributor caps and rotors.)**
**Sorenson Mfg. Co., P. 32-31 57th St., Woodside 77, N. Y. (Distributor heads and rotors.)**
**Specialty Insulation Mfg. Co., Hoosick Falls, N. Y. (Distributor caps.)**
**Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, L. I., N. Y.**
**Tasco Products Inc., 199 Vermont St., Brooklyn 7, N. Y.**

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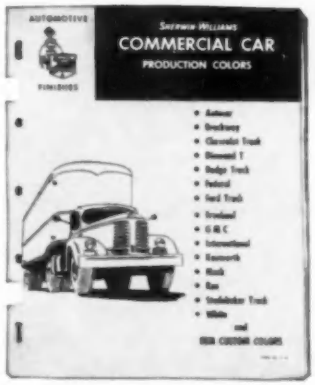


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AUTOMOTIVE FINISHES

**PARTS—continued**

**Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J. (Caps and rotors.)**
Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y. (Distributor.)
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis. (Distributor caps and rotors.)
Wheel Parts & Mfg. Co., 352 Fourth Ave., N. Y. 10, N. Y. (Distributor caps and rotors.)

**PARTS, Replacement**

Allied Motor Parts Co., Detroit 1, Mich.
Chrysler Motors Corp., MoPar Div., 7900 Joseph Campau Ave., Detroit 31, Mich.
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Ford Motor Co., 3000 Schaefer Rd., Dearborn, Mich.
United Motors Service, General Motors Building, Detroit 2, Mich.

**PARTS, Starting Motor Drive**

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.
American Motor Products Co., Fond du Lac, Wis.
Carston Mfg. Co., 46 N. 2nd St., Mt. Vernon, N. Y. (Bolts and washers.)
Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Guaranteed Parts Co., Seneca Falls, N. Y.
International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Keystone Carbon Co., 1935 State St., St. Marys, Pa.
Lamson & Sessions Co., 5000 Tiedeman Rd., Cleveland 9, Ohio. (Bolts.)
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. (Screws.)
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y. (Springs.)
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. (Springs, etc.)
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio. (Washers.)
Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y.
Van Bergen & Greener, Inc., 1619 N. Hoyne Ave., Chicago 47, Ill.
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis.
Wickwire Spencer Steel Div. of Colorado Fuel & Iron Corp., 575 Madison Ave., New York 22, N. Y. (Springs, bolts and washers.)

**PASSENGER CARS, Fleet**

(Advertisers Only)

Ford Div., Ford Motor Co., American Road, Dearborn, Mich.
Plymouth Div. Chrysler Corp., 6334 Lynch Rd., Detroit 31, Mich.
Rambler Div. American Motors Corp., Detroit 32, Mich.
Volkswagen of America, Inc., Englewood, N. J.

**PINS, King**

Accurate Parts Inc., 135 N. Spring St., Indianapolis, Ind.
Aircraft & Automotive Prods., Inc., 2501 S. West St., Wichita, Kan. (Bus.)
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich. (Trailer.)
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Cleveland Cap Screw Co., 2917 E. 79th St., Cleveland 4, Ohio.
Elgin Machine Works, 412 N. State St., Elgin, Ill. (Assemblies.)
Ertel Products Co., Repl. Div. of Ertel Mfg. Corp., 1402 E. 20th St., Indianapolis, Ind.
Gilpak Automotive Products Div. Packer Auto Parts Inc., Roselle, N. J. (Sets.)
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis.
Kings County Centerless Grinding Co., 555 36th St., Union City, N. J.
Master Parts, Div. of Airtex Products, Inc., Fairfield, Ill.
McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis, Mo.
Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Neapco Products, Inc., South & Cross Sts., Pottstown, Pa.
Oliver Iron & Steel Corp., 1001 Muriel St., Pittsburgh, Pa.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Superior Machine Tool Co., 329 E. Firmin St., Kokomo, Ind.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Div. Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio.
Trayer Products, Inc., E. Clinton St., Elmira, N. Y.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Wohlert Corp., 700 E. Grand River Ave., Lansing 5, Mich.

**PINS, King, Trailer**

Miller Industries, 213 E. Cortland St., Jackson, Mich.

**PINS, Piston**

Aircraft & Automotive Prods. Inc., 2501 S. West St., Wichita, Kan.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.
American Hammered Automotive Replacement Div. of Sealed Power Corp., Acuralite Div., 2001 Sanford St., Muskegon, Mich.
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
Brown Corp., 313 Bellevue Ave., Syracuse, N. Y.
Burgess-Norton Mfg. Co., 731 Peyton St., Geneva, Ill.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind.
Ertel Products Co., Repl. Div. of Ertel Mfg. Corp., 1402 E. 20th St., Indianapolis, Ind.
Kings County Centerless Grinding Co., 555 36th St., Union City, N. J.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Marquette Div. Curtiss-Wright, 1145 Galewood Drive, Cleveland 10, Ohio.
Merit Products Co., 121 W. Florence Ave., Los Angeles 3, Calif.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Nylen Products, Inc., U. S. 12, Bridgman, Mich.
Ohio Piston & Machinery Co., 5342 Hamilton Ave., Cleveland 14, Ohio.
Ottawa Steel Products, Inc., 745 Woodlawn Ave., Grand Haven, Mich.
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.
Simplex Products Corp., 3830 Kelly Ave., Cleveland, Ohio.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Div. Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.

**PIPES, Tail and Exhaust**

AP Parts Corp., AP Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio.
Alexander-Tagg Industries, Inc., Jacksonville Rd. & Summit Ave., Hatboro, Pa.
Arvin Industries, Inc., 13th St. & Big Four R. R., Columbus, Ind. (Exhaust.)
De Koven Mfg. Co., 1201 Michigan Blvd., Racine, Wis.
Douglass Muffler Mfg. Co., 5636 E. Shull St., Bell Gardens, Calif.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Bendable.)
Flexonics Corp., 1315 S. Third Ave., Maywood, Ill. (Bendable.)
Formed Tubes, Inc., S. Prairie & Albert Sts., Sturgis, Mich.
Goerlich's, 619 Smith St., Toledo 1, Ohio.
Haviland Co., Arnold, 1008 S. Jackson St., Defiance, Ohio.
Houser Engrg. & Mfg. Co., 200 E. Spring St., Bluffton, Ind.
International Parts Corp., 11th & States Sts., Chicago 5, Ill.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.
Maremont Muffler Div. of Mar Pro Inc., Maremont Bldg., 168 N. Michigan Ave., Chicago 1, Ill. (Also bendable.)
Michigan Steel Tube Products, Div. of Standard Tube Co., 24400 Plymouth Rd., Detroit 39, Mich.
Northern Tube Co., Pinconning, Mich.
Ohio Parts, Inc., 307 Perry St., Defiance, Ohio.
Porter Muffler Mfg. Co., 11820 W. Olympia Blvd., Los Angeles 64, Calif.
Powell Muffler Co., 4235 W. 42nd Pl., Chicago, Ill.
Pratt Muffler Div. of Mar Pro Inc., 168 N. Michigan Ave., Chicago, Ill.
Riker Mfg. Inc., 4901 Stickney Ave., Toledo 12, Ohio. (Tail.)
Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill.
Smithy's Muffler Co., 1850 N. Main St., Los Angeles 31, Calif.
Tube Products Corp., 320 N. 2nd St., Tipp City, Ohio.
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.
Western Piping & Engrg. Co., 123 Kansas St., San Francisco 3, Calif. (Trucks & buses.)

**PISTONS**

Al-Fin Div., Fairchild Engine & Airplane Corp., Deer Park, N. Y. (Aluminum with bonded and cast iron ring carriers.)
Aluminum Alloys Corp., 6650 Walton St., Detroit 10, Mich.
Aluminum Industries, Inc., 3670 Werk Rd., Cincinnati 11, Ohio.
American Hammered Automotive Replacement Div. of Sealed Power Corp., Acuralite Div., 2001 Sanford St., Muskegon, Mich.
Arrow Head Steel Products Co., Howell, Mich. (Aluminum alloy, vanasil and cast iron.)
Badger Mfg. Co., 1505 City Court, Marinette, Wis. (Aluminum alloy.)
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Continental Motors Corp., Muskegon 82, Mich.
Edebrock Equipment Co., 4921 W. Jefferson Blvd., Los Angeles 16, Calif. (Oversize.)
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind. (Aluminum and cast iron.)
Ertel Products Co., Repl. Div. of Ertel Mfg. Co., 1402 E. 20th St., Indianapolis, Ind. (Aluminum and cast iron.)
Gillett & Eaton, Inc., 8th & Doughty Sts., Lake City, Minn. (Aluminum, aluminum alloy and semi-steel.)
Hi-Duty Products Corp., 1801 S. Hope St., Los Angeles 15, Calif. (Aluminum.)
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Nylen Products, Inc., U. S. 12, Bridgman, Mich. (Aluminum and gray iron.)
Ohio Piston & Machinery Co., 5340 Hamilton Ave., Cleveland 14, Ohio. (Aluminum, cast iron, and steel insert aluminum.)
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.
Sterling Aluminum Products, Inc., 2600 N. Third St., St. Charles, Mo.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Aluminum alloy.)
Toledo Steel Products Div. Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio.
Triplex Corp. of America, P. O. Box 666, Pueblo, Colo. (Aluminum.)
Tsungani Piston Co., 625 E. 11th St., Tacoma, Wash.
United Engine & Machine Co., 310 Preda St., San Leandro, Calif.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.
Zollner Corp., Bueter Rd., Fort Wayne, Ind. (Aluminum alloy.)

PLASTIC, BODY, Repair, See Compounds, Body Repair

**PLATES, Clutch Pressure**

Accurate Re-Nu Clutch Div. of Mar Pro Inc., 168 N Michigan Ave., Chicago 1, Ill.

Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.

**PLATES, FLOORING, See Flooring, Truck and Trailer**

## PLATES, Step

Croname Inc., 6217 Howard St., Chicago 48, Ill. (Scuff.)
Duffy Mfg. Co., Holland, Mich.
Hamlin Metal Products Co., 2741 Wingate Ave., Akron 19, Ohio.
Moore & Co., Samuel, Mantua, Ohio.
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio.
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio. (Scuff.)

**PLIERS, BRAKE SPRING, See Tools, Brake Spring Removing and Replacing**

**PLIERS, TERMINAL, See Tools, Battery Service**

**PLOWS, SNOW, See Snow Plows**

## PLUGS, Fusible Safety for Hydraulic Lines

Shand & Jurs Co., 8th & Carlton Sts., Berkeley 10, Calif.

**PLYWOOD, See Panels, Plywood**

## POINTS, Ignition

American Motor Products Co., Fond du Lac, Wis.
American Platinum Works, N.J.R.R. Ave. at Oliver St., Newark 5, N. J.
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Echlin Mfg. Co., U. S. Route 1, Branford, Conn.
Electric Auto-Lite Co., Toledo 1, Ohio.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 11, Ill.
Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.
Gilpak Automotive Products Div. of Packer Auto Parts Inc., Roselle, N. J.
Guaranteed Parts Co., Seneca Falls, N. Y.
Holley Carburetor Co., 11955 Nine Mile Rd., Van Dyke, Mich.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
M D Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Speer Carbon Co., St. Marys, Pa.
Springfield Electrical Specialties, Inc., 120 Wooster St., New York 12, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, L. I., N. Y.
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
Tasco Products, Div. of Guaranteed Parts Co., Seneca Falls, N. Y.
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y.
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Wilson Co., H. A., 2655 U. S. Route 22, Union, N. J.

## POLISH, Body

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Albertson & Co., 3100 Lowell Ave., Sioux City 3, Iowa.
Allube Corp., 928 Allen Ave., Glendale 1, Calif.
Alsol Products Co., 123 Colt St., Irvington, N. J.
Atomix, Inc., Box 486, Wilmington 99, Del.
Ball Chemical Co., 524 Federal St., Pittsburgh 12, Pa.
Bandimere Mfg. Co., 3276 Benton St., Denver 14, Colo.
Barton Products Co., 1891 N. Winnebago Ave., Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport 5, Conn.
Bowes "Seal Fast" Corp., 5902 E. 34th St., Indianapolis 18, Ind.
Boyle-Midway, Inc., 22 E. 40th St., New York 16, N. Y.
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo.
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass.
Collenite Chemical Co., 1205 Mohawk St., Utica 3, N. Y.
Colorglo Products, Inc., 8321 Allport Ave., Whittier, Calif.
Drew & Co., E. T., Automotive Chemicals Div., 15 E. 26th St., New York 10, N. Y.
du Pont de Nemours & Co., E. I., Chemical Specialties Div., Wilmington 98, Del.
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Freeman & Freeman, Inc., 600 Grant St., Denver 3, Colo.
Garry Laboratories, Inc., 701 Seneca St., Buffalo 10, N. Y.
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. (Wax.)
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind.
Johnson & Son, Inc., S. C., Racine, Wis.
Jones Products Co., 1406 Massachusetts Ave., Arlington 74, Mass.
Kammel Products Corp., 1619 Hart Place, Brooklyn 24, N. Y.
Ken-Nite Co., 2926 Hancock Ave., W., Detroit 8, Mich.
Lee Polish Mfg. Co., 1399 Utica Ave., Brooklyn 3, N. Y.
Liquid Glaze, Inc., 704 Sheridan St., Lansing 6, Mich.
Liquid Veneer Corp., 215 E. Ellicott St., Buffalo 3, N. Y.
Livingston Co., 1148 Amity Rd., New Haven 15, Conn.
Lusco, Inc., 5915 Bonna Ave., Cleveland 3, Ohio.
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
Milwaukee Electric Tool Corp., 5350 W. State St., Milwaukee 8, Wis.
Mirror Bright Polish Co., 365 N. Altadena Blvd., Pasadena, Calif.
National Carbon Co., 30 E. 42nd St., N. Y. 17, N. Y.
Nu-Wipe-Lacquerwax Inc., Webster's Mill, 57 N. Washington St., Plainville, Conn.
Park Chemical Co., 8074 Military Ave., Detroit 4, Mich.
Penray Co., 1532 W. Fulton St., Chicago 7, Ill.
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.
Plasticlear Products, Inc., 29 Mills St., Malden, Mass.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.
Shell Oil Co., 50 W. 50th St., N. Y. 20, N. Y.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Simoniz Co., 2100 Indiana Ave., Chicago 16, Ill.
Sinclair Refining Co., 600 Fifth Ave., New York, N. Y.
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stain-Ox Co., 625 E. First Ave., Roselle, N. J.
Stanley Co., John T., 642 W. 30th St., New York 1, N. Y.
Swavely Chemical & Varnish Works, 831 Page St., Flint 5, Mich.
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
U. S. Chemical & Supply Co., 400 E. 10th Ave., North Kansas City 16, Mo.
Universal Chemical Div., R. M. Hollingshead Corp., 840 Cooper St., Camden 2, N. J.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.
Westley Industries, 1898 Scranton Rd., Cleveland 13, Ohio.
Wilco Co., 4425 Bandini Blvd., Los Angeles
Wilson-Imperial Co., 115 Chestnut St., Newark 5, N. J.
Woodside Industries, 6125 Vancouver St., Detroit 4, Mich.
Zecol, Inc., 3270 S. 3rd St., Milwaukee 7, Wis

## POLISHERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Buckeye Tools Corp., 5005 Springboard Pike, Dayton 9, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44 St., N. Y. 17, N. Y.
Clarke Sanding Machine Co., 30 E. Clay Ave., Muskegon, Mich.
Cummins Portable Tools Div. of John Oster Mfg. Co., 5055 N. Lydell Ave., Milwaukee 17, Wis.
Dremel Mfg. Co., 2420 18 St., Racine, Wis.
Jones Motorola Corp., 432 Fairfield Ave., Stamford, Conn.
Lee Co., A. O., Congress at First Ave., S.E., Aberdeen, S. D.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.
Nedco Co., 27 Jones Rd., Waltham 54, Mass.
Portable Elec. Tools, Inc., 320 W. 83rd St., Chicago 20, Ill.
Porter-Cable Machine Co., 700 Marcellus St., Syracuse 4, N. Y.
Remington Arms Co., 939 Barnum Ave., Bridgeport 2, Conn.
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.
Scott Corp., Douglas, 3931 W. 150th St., Cleveland 11, Ohio.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Skil Corp., 5033 Elston Ave., Chicago 30, Ill.
Sommer & Maca Glass Machining Co., 3600 S. Oakley Ave., Chicago 9, Ill.
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.
United States Electrical Tool, Div. of Emerson Electric Mfg. Co., 1050 Findlay St., Aurora, Ill.
Wen Products, Inc., 5806 Northwest Hwy., Chicago 31, Ill.

## POLISHERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio. (P. O. Box 966.)
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.
Skil Corp., 5033 Elston Ave., Chicago 30, Ill.
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.

**POLISHING COMPOUNDS, See Compounds, Rubbing and Polishing**

**POWER TAKE-OFFS, See Take-Offs, Power**

## PRESSES, Arbor

Acromark Co., 9 Morrell St., Elizabeth 4, N. J.
Bee-Line Co., Box 569, Davenport, Iowa.
Bellows Co., 222 W. Market St., Akron 9, Ohio. (Pneumatic.)
Champion Blower & Forge Co., Harrisburg Ave., & Charlotte St., Lancaster, Pa.
Dake Corp., 724 Robbins Rd., Grand Haven, Mich.
Famco Machine Co., 3100 Sheridan Rd., Kenosha, Wis.
French Oil Mill Machinery Co., Piqua, Ohio.
General Mfg. Co., 6432 Farnsworth Ave., Detroit 11, Mich.
Greenerd Arbor Press Co., 41 Crown St., Nashua, N. H. (Hand and hydraulic.)
Hannifin Co., 615D S. Wolf St., Des Plaines, Ill.
Houdaille Industries, Inc., Manzel Div., 315 Babcock St., Buffalo 10, N. Y.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Electric and hydraulic.)
Logansport Machine Co., Center Ave., Logansport, Ind. (Pneumatic and hydraulic.)
Manley Div., Douglas Motors Inc., 2025 Clybourn St., Milwaukee, Wis.

**PRESSES—continued**

Mead Specialties Co., 4114 N. Knox Ave., Chicago 41, Ill. (Pneumatic.)
Nugier Co., F. A., 1748 Berkeley St., Santa Monica, Calif. (Hand and hydraulic.)
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Rotex Punch Co., 2350 Alvardo St., San Leandro, Calif.
Studebaker Hydraulic Products Co., 1733 N. 33rd Ave., Melrose Park, Ill. (Hydraulic and air-hydraulic.)
Treadwell Tap & Die Co., Greenfield, Mass.
Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.
Ullmo Tool Co., 2515 Superior St., Cleveland, Ohio. (Portable.)
Wilson, Inc., K. R., Arcade, N. Y.

**PRESSES, Hydraulic**

Air Hydraulics, Inc., 811 Belden St., Jackson, Mich.
American Broach & Machine Co. (Div. of Sundstrand Machine Tool Co.), 415 W. Huron St., Ann Arbor, Mich.
Anderson Bros. Mfg. Co., 1907 Kiswaukee St., Rockford, Ill.
Baldwin-Lima-Hamilton Corp., Philadelphia 7, Pa.
Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 46, Wis.
Bliss Co., E. W., 1375 Raff Rd. S. W., Canton, Ohio.
Chambersburg Engrg. Co., Derbyshire St., Chambersburg, Pa.
Clearing Machine Corp., 6499 W. 65th St., Chicago 38, Ill.
Clifton Hydraulic Press Co., 289 Alwood Rd., Clifton, N. J.
Colton Co., Div. of Snyder Tool & Engrg. Co., 5400 E. Lafayette St., Detroit 7, Mich.
Dake Corp., 724 Robbins Rd., Grand Haven, Mich. (Electrically, air and hand operated.)
Denison Engineering Co., 1160 Dublin Rd., Columbus, Ohio.
Detroit Broach Co., 950 S. Rochester Rd., Rochester, Mich.
Elmes Engrg. Div., American Steel Foundries, 1163 Tennessee Ave., Cincinnati 29, Ohio.
Erie Foundry Co., 1253 W. 12th St., Erie, Pa.
Fox Engrg. Co., 1336 Francis St., Jackson, Mich.
French Oil Mill Machinery Co., Piqua, Ohio.
General Mfg. Co., 6432 Farnsworth Ave., Detroit 11, Mich.
Greenerd Arbor Press Co., 41 Crown St., Nashua, N. H.
Hannifin Corp., 615D South Wolf Rd., Des Plaines, Ill.
Hill Inc., Walter P., 22183 Telegraph Rd., Detroit 19, Mich.
Hydraulic Press Mfg. Co., Mount Gilead, Ohio.
Kane & Roach, Niagara & Shonnard Sts., Syracuse 4, N. Y.
Lake Erie Machinery Corp., 890 Woodward Ave., Buffalo 17, N. Y.
Lapointe Machine Tool Co., 34 Tower St., Hudson, Mass.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.
Link Engrg. Co., 13840 Elmira Ave., Detroit 27, Mich.
Lodge & Shipley Co., 3055 Colerain Ave., Cincinnati 25, Ohio.
Logan Engrg. Co., 4901 W. Laurence Ave., Chicago 30, Ill.
Logansport Machine Co., Center Ave., Logansport, Ind.
Manley Div., American Chain & Cable Co., 1234 N. 62nd St., Milwaukee 13, Wis.
Mesta Machine Co., Box 1466, Pittsburgh, Pa.
Munton Mfg. Co., 9161 Fullerton Ave., Franklin Park, Ill.
Niagara Machine & Tool Works, 683 Northland Ave., Buffalo 11, N. Y.
Nugier Co., F. A., 1748 Berkeley St., Santa Monica, Calif.
Oliver Corp., A. B., Farquhar Div., 142 N. Duke St., York, Pa.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Paul Machine Tool & Die Works, 4600 S. Kedzie Ave., Chicago 32, Ill.
Rodgers Hydraulic Inc., 7401 Walker St., Minneapolis 26, Minn. (Shop and portable.)
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis, Ind.
Studebaker Hydraulic Products Co., 1733 N. 33rd Ave., Melrose Park, Ill.
Sutton Engrg. Co., 234 S. Potter St., Bellefonte, Pa.
Tobin-Arp Mfg. Co., 6400 Penn Ave., S. Minneapolis 23, Minn.
Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.
Verson Allsteel Press Co., 93rd St. & Kenwood Ave., Chicago, Ill.
Watson-Stillman Press Div., Farrel-Birmingham Co., 565 Blossom Rd., Rochester 10, N. Y.
Williams, White & Co., 100 Eighth St., Moline, Ill.
Wilson, Inc., K. R., Arcade, N. Y.
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn.

**PRESSES, Straightening, Wheel**

Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 2, Ind.

**PRIMERS, Engine, Hand**

Dole Valve Co., 6201 Oakton St., Morton Grove, Ill.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill.
Standard Oil Co. of Calif., Western Operations Inc., 225 Bush St., San Francisco 20, Calif.
Start Pilot Corp., 61 Second St., Mineola, N. Y.

**PROPANE, See Fuels, Engine**
**PRUSSIAN BLUE, See Blue, Mechanics**

**PULLERS, Axle Tube**

Hunt Mfg. Co., Geo. L., 106 Commercial St., Boscobel, Wis.
Kaywood Products Corp., 217 Clinton St., Jackson, Mich.
Owatonna Tool Co., 342 Cedar St., Owatonna, Minn.
P & C Tool Co., Box 5926, Milwaukee, Ore. Milwaukee 1, Wis.
Wright Tool Co., 4316 N. Woodward, Royal Oak, Mich.

**PULLERS, Bearing, Gear and Wheel**

Armstrong-Bray & Co., 5364 Northwest Highway, Chicago, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Wheel.)
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. (Hydraulic wheel.)
C. & G. Wheel Puller Co., Scio, N. Y.
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich. (Also timing gear.)
Cam Tool Co., 11 Randwick Ave., Oakland 11, Calif.
Campbell Auto Wks., 2128 N. F St., Stockton, Calif.
Cornwell Quality Tools Co., Mogadore, Ohio.
Crane Puller Co., 11 River St., West Newton, Mass.
Dalton Foundries, Inc., Warsaw, Ind.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Gerb Co., 181 Canton St., Stoughton, Mass.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Hunt Mfg. Co., Geo. L., 106 Commercial St., Boscobel, Wis.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (Wheel.)
Kennedy Service Tools Co., 788 Evans Ave., Akron, Ohio. (Wheel.)
Ken-Tool Mfg. Co., 768 E. North St., Akron 6, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Miller Mfg. Co., 17640 Grand River Ave., Detroit 27, Mich. (Wheel.)
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
National Machine Works, Inc., 1800 S. Broadway, Oklahoma City 9, Okla.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. (Also hydraulic conversion sets.)
P & C Tool Co., Box 5926, Milwaukie, Ore.
Proto Tools, 2209 Santa Fe Ave., Los Angeles 51, Cal.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill. (Wheel.)
Simmons Mfg. Co., Ashland, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Springfield Wheel Puller Co., 510 Hubert Ave., Springfield, Ohio.
Templeton, Kenly & Co., Gardner Rd., Broadview, Ill. (Hydraulic.)
Vichek Tool Co., 3000 E. 87th St., Cleveland, Ohio.
Weidenhoff Corp., Algona, Iowa.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Wilson, Inc., K. R., Arcade, N. Y.
Wright Tool & Forge Co., 42 E. State St., Barberton, Ohio. (Wheel.)
Zim Mfg. Co., 3007 Carroll Ave., Chicago, Ill.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

**PULLERS, Cylinder Head**

Cornwall Quality Tools Co., Mogadore, Ohio.

**PULLERS, Cylinder Sleeve**

Fort Dodge Machine & Supply Co., 529 First Ave., S. Fort Dodge, Iowa.
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. (Also hydraulic conversion sets.)

**PULLERS, VEHICLE, See Towers**

**PUMPS, Brake, Vacuum**

Bendix Products Div., Bendix Aviation Corp., South Bend 20, Ind.
Hetzel Bros., 1457 E. Washington Blvd., Los Angeles 21, Calif.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.

**PUMPS, Drum or Barrel Type**

Practical Products Co., 2632 Nicollet Ave., Minneapolis 8, Minn.
Wood Co., John, Bennett Pump Div., Muskegon, Mich.

**PUMPS, Fuel**

AC, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Mechanical, also combustion fuel feed and vacuum.)
Airtex Automotive Div., Airtex Products, Inc., Fairfield, Ill. (Also combination fuel and vacuum.)
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.
American Motor Products Co., Fond du Lac, Wis.
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill.
Carter Carburetor Div. of ACF Industries Inc., 2840 N. Spring Ave., St. Louis 7, Mo. (Electric and mechanical.)
Eastern Industries, Inc., 100 Skiff St., Hamden, Conn.
Eclipse Machine, Div. Bendix Aviation Corp., Elmira, N. Y. (Electric.)
Electric Auto-Lite Co., Toledo 1, Ohio.
Electric Autopulse Div., Walbro Corp., Cass City, Mich.
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.
Hygrade Products Div., Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J. (Also combination fuel and vacuum.)
Master Parts, Div. of Airtex Products, Inc., Fairfield, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City 5, N. Y.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago 14, Ill. (Electric.)
Thompson Products Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Tokheim Corp., General Products Div., 1602 Wabash Ave., Fort Wayne 1, Ind. (Electric.)
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis.

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### PUMPS, Gasoline, Filling Station

Bowser, Inc., 1302 E. Creighton Ave., Fort Wayne 2, Ind. (Also LP Gas.)
Dayton Pump & Mfg. Co., 800 N. Webster St., Dayton, Ohio.
Erie Meter Systems, Inc., 1602 Wagner Ave., Erie, Pa.
Gilbert & Barker Mfg. Co., Cold Spring Ave., West Springfield, Mass.
Smith Corp., A. O. Pacific Coast Div., 5715 Smithway St., Los Angeles 27, Calif.
Southwest Pump Co., First & Center Sts., Bonham, Tex.
Tokheim Corp., 1602 Wabash Ave., Fort Wayne, Ind.
Wayne Pump Co., Salisbury, Md.
Wood Co., John, Bennett Pump Div. Broadway & Wood Sts., Muskegon, Mich.

### PUMPS, Oil

(Advertisers Only)

Wohlert Corp., 700 E. Grand River Ave., Lansing 5, Mich.

### PUMPS, Tire Inflating

Bennett Pump Div., John Wood Co., Muskegon, Mich.

### PUMPS, Water

Accurate Products Inc., 135 N. Spring St., Indianapolis, Ind.
Airtex Automotive Div., Airtex Products, Inc., Fairfield, Ill.
Allied Motor Parts Co., Detroit 1, Mich.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.
Atlas Brass Foundry Co., 32 W. Deshler Ave., Columbus, Ohio.
Cloyes Gear & Products Inc., 17214 Roselana Rd., N.E., Cleveland 12, Ohio.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Products Co., Repl. Div. Ertel Mfg. Corp., 1402 E. 20th St., Indianapolis, Ind.
Gilpak Automotive Products Div. of Packer Auto Parts Inc., Roselle, N. J.
Grapho Products, Inc., P. O. Box 8604, Lawrence, Ind.
Imco Mfg. & Sales Co., 10 E. Lafayette Ave., Baltimore 2, Md.
L C Products, Inc., 2232 Alvord St., Indianapolis 7, Ind.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo. (Factory rebuilt.)
Master Parts Div., Airtex Products, Inc., Fairfield, Ill.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.
Schwitzer-Cummins Co., 1125 Massachusetts Ave., Indianapolis 7, Ind.
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Div. Thompson Products, Inc., 6402 Cedar Rd., Cleveland 3, Ohio.
Warner Machine Products, Inc., 1200 Rochester St., Muncie, Ind.
Wheel Parts & Mfg. Co., 352 Fourth Ave., N. Y. 10, N. Y.
Wohlert Corp., 700 E. Grand River Ave., Lansing 5, Mich.
Wolverine Gear & Parts Co., Osseo, Mich.

### RACKS, Stock, Tire and Tool, Metal

Angle Steel Stool Co., 56 Oak St., Plainwell, Mich.
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif (Tire.)
Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.
Bay Products, Inc., 3001 N. 16th St., Philadelphia 32, Pa. (Steel tool.)
Berger Div., Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio.
Bernard Franklin Co., Healey & Bath Sts., Phila. 37, Pa.
Bernard Gloekler North East Co., Robinson and Wall Sts., North East, Pa.
Branick Mfg. Co., 2600 Third Ave., N., Fargo, N. D. (Tire.)
Brown Engineering Co., 131 N. Third St., Reading, Pa. (Stock.)
Coats Co., 3001 Fifth Ave., S., Fort Dodge, Iowa. (Tire; sole distributors Jack P. Henessy Sales Co., 12 Depot Sq., Englewood, N. J.)
Durlach Can & Iron Works, 360 Ninth St., Brooklyn 15, N. Y.
Economy Engineering Co., 4511 W. Lake St., Chicago 24, Ill. (Barrel.)
Equipto Div. Aurora Equipment Co., Prairie St. at Cleveland, Aurora, Ill.
Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis.
Fenton Industries, 5105 San Fernando Rd., W., Los Angeles 39, Calif.
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio.
Haertel Co., Walter, 2840 Fourth Ave. S., Minneapolis 8, Minn.
Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
International Equipment Div. Morrison Railway Supply Corp., P. O. Box 185, Sta. F, Buffalo, N. Y. (Sole distributors Jack P. Hennessy Sales Co., Englewood, N. J.)
Kirspel Industries, Inc., Livingston, N. J.
Lewis-Shepard Products, Inc., 1050 Walnut St., Watertown, Mass.
Logan Co., Cabel St., Louisville 6, Ky.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit 12, Mich. (Stock.)
Paltier Corp., 1701 Kentucky St., Michigan City, Ind.
Republic Steel Corp., Pressed Steel Div., 6100 Truscon Ave., Cleveland 27, Ohio.
Revolvator Co., U S. Route 1 at 86th St., North Bergen, N. J. (Barrel and drum.)
Unistrut Products Co., 933 Washington Blvd., Chicago 7, Ill. (Framing.)

RADIATOR COVERS, See Covers, Radiator Grille
RADIATOR GRILLES, See Grilles, Radiator
RADIATOR SHUTTERS, See Shutters, Radiator

### RADIATORS, Engine Cooling

Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill.
Beacon Auto Radiator Co., 110 Brookline Ave., Boston 15, Mass.
Blackstone Corp., 1088 Allen St., Jamestown, N. Y.
Daniel Radiator Mfg. Co., 5542 Harvey Wilson Dr., Houston 20, Tex.
Fedders-Quigan Corp. Co., 57 Tonawanda St., St., Buffalo 7, N. Y.
G & O Mfg. Co., 138 Winchester Ave., New Haven, Conn.
General Radiator Co., P. O. Box 28, Mt. Vernon, Ill.
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.
Lake Auto Radiator Mfg. Co., 5200 W. 130th St., Cleveland 30, Ohio.
Long Mfg. Div. Borg-Warner Corp., 12501 Duquindre St., Detroit, Mich.
McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.
Modine Mfg. Co., 1500 De Koven Ave., Racine, Wis.
Perfex Corp., 500 W. Oklahoma Ave., Milwaukee 7, Wis.
Yates-American Machine Co., Beloit, Wis.
Young Radiator Co., 709 S. Marquette St., Racine, Wis.

### RADIOS, Two-Way

Bendix Radio Communications Div., Bendix Aviation Corp., E. Joppa Rd., Towson 4, Md.
Communications Co., 300 Greco Ave., Coral Gables 34, Fla.
Du Mont Laboratories, Inc., Allen B., 750 Bloomfield Ave., Clifton, N. J.
Federal Telephone & Radio Co., 100 Kingsland Rd., Clifton, N. J.
General Electric Co., Communication Products Dept., Electronics Park, Syracuse, N. Y.
Kaar Engrg. Corp., 2995 Middlefield Rd., Palo Alto, Calif. (For commercial vehicles.)
Motorola Communications & Electronics, Inc., 4545 W. Augusta Blvd., Chicago 51, Ill.
Radio Corp. of America, Mobile Communications Equip., Commercial Electronics Dept., Camden, N. J.

### RADIOS, Vehicle (Receivers)

Automatic Radio Mfg. Co., 122 Brookline Ave., Boston, Mass.
Bendix Radio Communications Div., Bendix Aviation Corp., E. Joppa Rd., Towson 4, Md. (Custom built only.)
Delco Radio Div., General Motors Corp., Kokomo, Ind.
Motorola Inc., 4545 W. Augusta Blvd., Chicago 51, Ill.
Philco Corp., Automotive Div., Tioga & C Sts., Philadelphia 34, Pa.
Sylvania Electric Products Inc., Lighting Div., 60 Boston St., Salem, Mass.

### RAILS, Rub, Pressed Steel

Bath Co., Cyril, 32280 Aurora Rd., Solon, Ohio.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Hart Metal Products Corp., 3333 Hammond Ave., Elkhart, Ind.
Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio.
Parish Pressed Steel Div. of Dana Corp., Robeson & Weiser Sts., Reading, Pa.

### RAMPS, Truck Loading

Bustin Steel Products, Inc., Dover, N. J.
Cemco Industries, Inc., Galion, Ohio. (Hydraulic.)
Christensen Co., Wm., Sherman St. & M&P Railway, York, Pa. (Adjustable.)
Colon Co., Leroy L., 2916 N. Cicero Ave., Chicago 41, Ill. (Hydraulic and manual.)
Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa. (Hydraulic dock leveling.)
Herman Co., Karl A., 412 Fuller St., N.E., Grand Rapids, Mich. (4 way adjustable.)
Magline, Inc., 952 Murray Rd., Pinconning, Mich. (Dockboards & mobile ramps.)
Magnesium Co. of America, 5222 Indianapolis Blvd., East Chicago, Ind.
Raymond Corp., 151 Madison St., Greene, N. Y.
Revolvator Co., U. S. Route 1 at 86th St., North Bergen, N. J. (Hydraulic.)
Rotary Lift Co., 1064 Kansas St., Memphis 2, Tenn.
Rowe Methods, Inc., 2534 Detroit Ave., Cleveland 13, Ohio. (Electric hydraulic.)
Wayne Pump Co., Salisbury, Md.

### RAMS, Hydraulic

Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.
Bee-Line Co., P. O. Box 569, Davenport, Iowa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis.
Livingston Mfg. Co., 8438 Otis St., South Gate, Cal.
Munton Mfg. Co., 9400 Belmont Ave., Franklin Park, Ill. (Hydraulic remote control.)
Owatonna Tool Co., 341 Cedar St., Owatonna, Minn.
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. (Hydraulic remote control.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 26, Mich.
Templeton Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill.
Wright Tool Co., 4316 N. Woodward, Royal Oak, Mich.

### RATCHETS, Ridge Rope for Truck Covers

East Akron Ratchet & Mfg. Co., 1048 Bank St., Akron 5, Ohio.

### REAMERS, Cylinder Ridge

All-Power Mfg. Co., 400 Roosevelt Ave., Montebello, Calif.
Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa.
Burd Piston Ring Co., Box 567, Eau Claire, Wis.
Cornwall Quality Tools Co., Magadore, Ohio.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Vim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

### REAMERS, Main Bearing and Connecting Rod

**Keystone Reamer & Tool Co., Millersburg, Pa.**
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y. (Connecting rod.)
Wilson, Inc., K. R., Arcade, N. Y.

### REAMERS, Power Drive

Barber-Colman Co., 1300 Rock St., Rockford, Ill.
Besly-Welles Corp., 20 N. Wacker Drive, Chicago 6, Ill.
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio.
Gairing Tool Co., 21221 Hoover Rd., Detroit 32, Mich.
Gammons-Hoaglund Co., 395 Main St., Manchester, Conn.
Goddard & Goddard Co., 12280 Burt Rd., Detroit 23, Mich.
Illinois Tool Works, 2501 N. Keeler Ave., Chicago, Ill.
Jarvis Corp., Middletown, Conn.
**Lee Co., K. O., Congress at First Ave., S. E.,** Aberdeen, S. D. (Expansion.)
**Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.**
McCrosky Tool Corp., S. Main St., Meadville, Pa.
National Twist Drill & Tool Co., Rochester, Mich.
Pratt & Whitney Co., Charter Oak Blvd., West Hartford 1, Conn.
Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill.
Reiff & Nestor Co., Lykens, Pa.
Reltool Corp., 4540 W. Burnham St., Milwaukee 46, Wis.
Standard Tool Co., 3950 Chester Ave., Cleveland 14, Ohio.
Twentieth Century Mfg., Route 176 & Bradley Rd., Libertyville, Ill.
United States Electrical Tool Co., 3620 Llewelyn St., Cincinnati 23, Ohio.

### REAMERS, Solid Expansion and Adjustable

**Ace Drill Corp., 2600 E. Maumee St., Adrian, Mich. (Solid.)**
Arrow Tool & Reamer Co., 711 Stephenson Highway, Troy, Mich. (Solid.)
**Barber-Colman Co., 1300 Rock St., Rockford, Ill. (Solid and adjustable.)**
Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa. (Solid and adjustable.)
**Besly-Welles Corp., 20 N. Wacker Drive, Chicago 6, Ill.**
Cal-Van Machine Products Inc., 809 S. Water St., Jackson, Mich.
**Chadwick & Trefethen, 32 Bow St., Portsmouth, N. H.**
Chicago-Latrobe, 426 W. Ontario St., Chicago 10, Ill. (Expansion.)
**Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio.**
Cornwell Quality Tools Co., Magadore, Ohio.
**Davis Boring Tool Div. of Giddings & Lewis Machine Tool Co., 475 S. Seymour St., Fond du Lac, Wis.**
**Do All Co., 254 N. Laurel Ave., Des Plaines, Ill.**
Gairing Tool Co., 21221 Hoover Rd., Detroit 32, Mich. (Expansion.)
**Goddard & Goddard Co., 12280 Burt Rd., Detroit 23, Mich.**
Greenfield Tap & Die Div. United Greenfield Corp., Sanderson St., Greenfield, Mass. (Solid and expansion.)
Heller Tool Co., Heller Dr., Newcomerstown, Ohio. (Chucking.)
**Hill Nut Co., 2620 W. Flourney St., Chicago 12, Ill.**
Hjorth Lathe & Tool Co., 12 Beacon St., Woburn, Mass. (Expansion and adjustable.)
**Jarvis Corp., Middletown, Conn. (Solid.)**
**Keystone Reamer & Tool Co., Millersburg, Pa.**
Lee Co., K. O., Congress at First Ave., S.E., Aberdeen, S. D. (Expansion.)
**Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Adjustable; Sole distributors to replacement trade Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)**
**McCrosky Tool Corp., S. Main St., Meadville, Pa. (Adjustable.)**
Madison Mfg. Co., 687 W. Clay St., Muskegon, Mich. **(Adjustable.)**
**Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.**
**National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.**
**National Twist Drill & Tool Co., Rochester, Mich. (Solid.)**
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.
O. K. Tool Co., Milford, N. H. **(Adjustable.)**
Pratt & Whitney Co., Charter Oak Blvd., West Hartford 1, Conn.
**Production Tool Co. of America, 6474 Le Grand Ave., Detroit 11, Mich.**
**Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill. (Expansion; also solid valve guide.)**
Reiff & Nestor Co., Lykens, Pa.
Reltool Corp., 4540 W. Burnham St., Milwaukee 46, Wis.
**Shearcut Tool Co., 7045 Darby Ave., Resida, Calif.**
**Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.**
**Standard Tool Co., 3950 Chester Ave., Cleveland 14, Ohio.**
**Staples Tool Co., 2352 Glendale-Milford Rd., Cincinnati 15, Ohio.**
**Tomkins-Johnson Co., 617 N. Mechanic St.,** Jackson, Mich. (Solid with interchangeable heads.)
**Union Twist Drill Co., Monroe St., Athol, Mass.**
**Union Twist Drill Co., Butterfield Div., Derby Line, Vt. (Solid and expansion.)**
Vaco Products Co., 317 E. Ontario St., Chicago 11, Ohio.
**Vermont Tap & Die Corp., Main & Grove Sts., Lyndonville, Vt. (Solid.)**
**Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.**
Waukesha Cutting Tools, Inc., Midland & Pearl St., Waukesha, Wis.
Wendt-Sonis Co., Hannibal, Mo. (Solid carbide tipped.)
**Wesson Tool Co., 12200 Woodward Heights Blvd., Ferndale 20, Mich.**
Wetmore Reamer Co., 420 N. 27th St., Milwaukee 8, **Wis. (Adjustable.)**
**Whitman & Barnes, Div. of United Drill & Tool Corp., 40085 Plymouth Rd., Plymouth, Mich. (Solid and expansion.)**
Wickman Mfg. Co., 10325 Capitol Ave., Oak Park, Detroit 37, Mich. (Adjustable floating.)
**Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.**
Wilson, Inc., K. R., Arcade, N. Y.
**Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.**

**REAMERS, VALVE SEAT, See Tools, Valve Seat Refinishing**
**RECAPPING & RETREADING, See Molds, Tire Recapping & Retreading**

### RECLAIMERS, Crankcase Oil

Burt Mfg. Co., 37 E. South St., Akron 11, O.
Hilliard Corp., 115 W. Fourth St., Elmira, N. Y.

### RECORDERS, Vibration

**Impact-O-Graph Corp., 1900 Euclid Ave., Cleveland 15, Ohio.**

### RECORDERS, Vehicle Movement

**Engler Instrument Co., 250 Culver Ave., Jersey City 5, N. J.**
**Sangamo Electric Co., Converse & N. 10th St., Springfield, Ill. (Sole distributors, Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. (To replacement trade.)**
Service Recorder Co., 1013 Rockwell Ave., Cleveland 14, Ohio.
**United States Taximeter Co., 514 W. 54th St., New York 19, N. Y.**

### REFACERS, Valve, Electric

**Albertson & Co., 3100 Lowell Ave., Sioux City, Ia.**
**Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.**
Cedar Rapids Engineering Co., 902 17th St., N. E., Cedar Rapids 1, Iowa.
**Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.**
**Skil Corp., 5033 Elston Ave., Chicago 30, Ill.**
Thor Power Tool Corp., Prudential Bldg., Chicago, Ill.
**Tobin-Arp Mfg. Co., 6400 Penn Ave. S., Minneapolis 23, Minn.**
Van Norman Co., Automotive Equip. Co., 3640 Main St., Springfield 7, Mass.
Wilson, Inc., K. R., Arcade, N. Y.

### REFLECTIVE MATERIALS

**By-Buck Co., 4314 W. Pico Blvd., Los Angeles 6, Calif.**
Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul, Minn.
Prismo Safety Corp., Huntington, Pa.

### REFLECTORS, Safety

American Automatic Devices Co., Harrison, Throop & Congress Sts., Chicago 7, Ill.
**Amesbury Metal Products Co., 39 Oakland St., Amesbury, Mass.**
Anthes Force Oiler Co., Ft. Madison, Iowa. (For road use.)
**Arrow Safety Device Co., Mt. Holly, N. J.**
**Auto Lamp Mfg. Co., 2909 S. Indiana Ave.,** Chicago 9, Ill.
**Bolser Corp., S. Main St., Cedar Falls, Iowa.**
Brown Co., E. C., Canandaigua, N. Y.
**Cole Automotive Products Co., 2705 S. Michigan Ave., Chicago 16, Ill. (For trucks, trailers and buses.)**
Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio.
**Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y.**
**Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.**
**Electroline Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.**
**Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.**
**Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.**
**Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.**
Gulotta Co., Charles, 81-20 Cooper Ave., Glendale 27, N. Y.
Johnson Glass & Plastic Corp., 5248 Elston Ave., Chicago 30, Ill.
**K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.**
**Kilborn-Sauer Co., Post Rd., Fairfield, Conn.** (Red, green or amber reflecting glass.)
**Miro-Flex Co., 1824 E. Second St., Wichita 7, Kan.**
**Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill.**
**Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass.**
Peterson Mfg. Co., 2716 E. 14th St., Kansas City 27, Mo.
**S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.**
Snow-Craggs Corp., 5840 S. Oakley Ave., Chicago 36, Ill.
Sparton Automotive Div. of Sparton Corp., Jackson, Mich. (Red and amber.)
**Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.**
**Stimsonite Div. of Elastic Stop Nut Corp. of America, 3445 N. Kimball Ave., Chicago 18, Ill.**
**Superior Parts Mfg. Corp., 1922 W. Grand Ave., Chicago 22, Ill.**
U. S. Tool & Mfg. Co., 1832 N Sheffield Ave., Chicago, Ill. (For trucks & buses.)
Vari-Products Co., 2450 S. Prairie Ave., Chicago 16, Ill. (For road use.)
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y. (Bus, truck and trailer.)
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

### REFRIGERATION CONTROLS

**General Controls Co., 801 Allen Ave., Glendale 1, Calif.**

### REFRIGERATING UNITS, Truck and Trailer

**Air Induction Corp., 122 W. 30th St., New York 1, N. Y.**
**American Mfg. Co., P. O. Box 989, Montgomery 2, Ala.** (Gasoline, hydraulic and electric driven.)
Brunner Div. of Dunham-Bush Inc., 179 South St., West Hartford 10, Conn.
**Copeland Refrigeration Corp., Short Clinton St., Sidney, Ohio.**
**Dole Refrigerating Co., 5962 N. Pulaski Rd., Chicago 46, Ill.** (Vacuum cold plate evaporators.)
**Foster-Built Bunkers, Inc., 1238 W. Harrison St., Chicago 7, Ill.** (Dry ice.)
**Frank-Dewey Co., 12334 Stark Rd., Livonia, Mich.** (Electric.)
**Frigidaire Div., General Motors Corp., 300 Taylor St., Dayton, Ohio.**
**General Electric Co., Section F-704-60, Schenectady, N. Y.**
Hunter Mfg. Co., 30525 Aurora Rd., Solon, Ohio. (Mechanical.)
**Keco Industries, Inc., 2832 Spring Grove Ave., Cincinnati 25, Ohio.**

### REFRIGERATION UNITS—continued

Kemi-Kold Corp., P. O. Box 5756, Orlando, Fla. (Freezer Paks.)
Kold Hold Div. of Tranter Mfg., Inc., 620 E. Hazel St., Lansing 4, Mich.
Lehigh Mfg. Co., Div. of Lehigh, Inc., Lehigh Drive, Easton, Pa.
Meyer Body Co., 218 Elm St., Buffalo 3, N. Y.
Preco, Inc., 6300 Slauson, Los Angeles 22, Calif.
Sundstrand Hydraulic Div., Sundstrand Machine Tool Co., Rockford, Ill. (Hydraulic drives.)
Tecumseh Products Co., Tecumseh, Mich.
Thermo King Corp., 314 W. 90th St., Bloomington, Minn.
Thaurer Wagon Works, Inc., 601 W. 56th St., New York 19, N. Y.
Tropic-Aire Division, McGraw-Edison Co., 5201 West 65th St., Chicago, Ill. (Tropic-Aire, Coldmobile.)
Tru Kooler, Inc., 135 S. Frederick Ave., Oelwein, Iowa.

### REGROOVERS, Tire

Bean Div. Food Mchry. & Chemical Corp., 1305 S. Cedar St., Lansing 4, Mich.
Big-Four Industries Inc., 5938 Carthage Court, Cincinnati, Ohio.
International Equipment Co. Div. Morrison Railway Supply Corp., P. O. Box 185, Sta. F, Buffalo, N. Y. (Sole distributors Jack P. Hennessy Sales Co., Englewood, N. J.)
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa.
Mertens Mfg. Co., 1533 Hamilton Ave., Racine, Wis. (Electrically heated hand operated.)
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.
Thompson & Sons, O. E., 111 Quimby St., Westfield, N. J. (Electrically heated, hand operated.)

### REGULATORS, Current and Voltage

American Bosch Div. American Bosch Arms Corp., 3664 Main St., Springfield 7, Mass.
American Motor Products Co., Fond du Lac, Wis.
Arrow Armature Co., 15 Fordham Rd., Boston 34, Mass.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Echlin Mfg. Co., U. S. Route 1, Branford, Conn.
Electra Mfg. Co., 800 N. 21st St., Independence, Kan.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y.
Illinois Accessories Co., 517 E. Ontario St., Chicago 11, Ill.
International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill. (Voltage.)
Kal-Equip Co., Box 567, Kalamazoo, Mich.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio.
M D Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Ohio Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, L. I., N. Y.
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
Tasco Products, Div. of Guaranteed Parts Co. Seneca Falls, N. Y.
United Motor Service, General Motors Bldg., Detroit 2, Mich.
Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y.
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

### REGULATORS, Humidity, Paint Shop

Bristol Co., Waterbury 20, Conn.
Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Windrim Aves., Philadelphia 44, Pa.
Powers Regulator Co., 3400 Oakton St., Skokie, Ill.
Weston Instruments Div. of Daystrom Inc., 614 Frelinghuysen Ave., Newark 21, N. J.

### RELAYS, Horn and Light

American Motor Products Co., Fond du Lac, Wis.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Echlin Mfg. Co., U. S. Route 1, Branford, Conn.
Electra Mfg. Co., 800 N. 21st St., Independence, Kans.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y.
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb. (Horn.)
Kem Mfg. Co., 20 Wagaraw Rd., Fair Lawn, N. J.
M D Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
New York Coil Co., 42 Second Ave., Phoenixville, Pa.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Ohio Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna St., Logansport, Ind.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, L. I., N. Y.
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
Switches Inc., 317 E. Ontario St., Chicago 11, Ill.
Tasco Products, Inc., Div. of Guaranteed Parts Co., Seneca Falls, N. Y.
Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y.
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis. (Light.)
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

### REMOVERS, OIL AND GREASE, See Solvents, Oil Carbon and Grease Removing

### REMOVERS, Paint, Enamel and Varnish

Acme Quality Paints, Inc., 8260 St. Aubin Ave., Detroit 11, Mich.
Amchem Products Inc., Brookside Ave. & Reading R. R., Ambler, Pa.
American Varnish Co., 1138 North Branch St., Chicago 22, Ill.
Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio.
Ball Chemical Co., 524 Federal St., Pittsburgh 12, Pa.
Barr & Co., W. M., 2336 S. Lauderdale St., Memphis 6, Tenn. (Sole distributors, Klean Strip Co., Box 3565, Memphis 6, Tenn.)
Brown Solvents Corp., 111 E. Griffith St., Charlotte, N. C.
Brulin & Co., 2939 Columbia Ave., Indianapolis 7, Ind.
Cee-Bee Chemical Co., 9520 E. Ceebee Drive, Downey, Calif.
Celco Corp., 60 E. 42nd St., New York 17, N. Y.
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Oil base paint.)
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.
Curran Corp., S. Canal St., Lawrence, Mass.
Day & Co., James B., 1872 Clybourn Ave., Chicago 14, Ill.
Delta Chemical Co., 2885 Warford St., Memphis 1, Tenn.
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.
Ditzler Color Div. of Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales, Wilmington 98, Del.
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Fine Organics, Inc., 211 E. 19th St., New York 3, N. Y.
Fischer Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa. (Hot.)
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago 16, Ill.
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich.
Kelite Products Corp., 1250 N. Main St., Los Angeles, Calif.
Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
Lea Mfg. Co., 16 Cherry Ave., Waterbury 20, Conn.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Martin-Senour Co., 2500 Senour Ave., Chicago 8, Ill
Modene Paint Co., 305 Eastern Ave., Chelsea 50, Mass.
Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. (Paint and varnish.)
Nason & Co., R. N., 151 Potrero Ave., San Francisco, Calif.
Northwest Chemical Co., 9310 Roselawn Ave., Detroit 4, Mich.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Octagon Process, Inc., 15 Bank St., Staten Island 1, N. Y.
Paint Remover Chemicals Corp., 2440 Gilbert Ave., Cincinnati 6, Ohio.
Panther Chemical Co., P. O. Box 711, Fort Worth, Tex.
Peck's Products Co., 610 E. Clarence Ave., St. Louis 15, Mo.
Penetone Co., 74 Hudson Ave., Tenafly, N. J.
Permo Products Corp., 1629 Platte St., Denver 2, Colo.
Pioneer Chemical & Mfg. Co., 9812 Meech Ave., Cleveland 5, Ohio.
Rossaul Co., 170 Fifth Ave., New York 10, N. Y
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Standard Toch Chemicals, Inc., 2600 Richmond Terrace, Staten Island 3, N. Y.
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
Wilbur & Williams Co., 130 Lincoln St., Brighton, Mass.
Wilson-Imperial Co., 115 Chestnut St., Newark 5, N. J.
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

### RESISTORS, Ignition

Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.

### RESURFACERS, Floor

Monroe Co., Inc., 10703 Quebec Ave., Cleveland 6, Ohio.
Stonhard Co., 1306 Spring Garden St., Philadelphia 23, Pa.

### RETAINERS, Oil and Grease

Acadia Div., Western Felt Works, 4115 Ogden Ave., Chicago 23, Ill. (Synthetic rubber.)
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.
Atlas Asbestos Co., 469 Walnut St., North Wales, Pa. (Water pump.)
Booth Felt Co., 476 19th St., Brooklyn 15, N. Y. (Felt.)
Brummer Seal Co., 1320 McKinley Ave., Chicago Heights, Ill.
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.
Cartriseal Corp., 3515 W. Touhy Ave., Lincolnwood, Ill.

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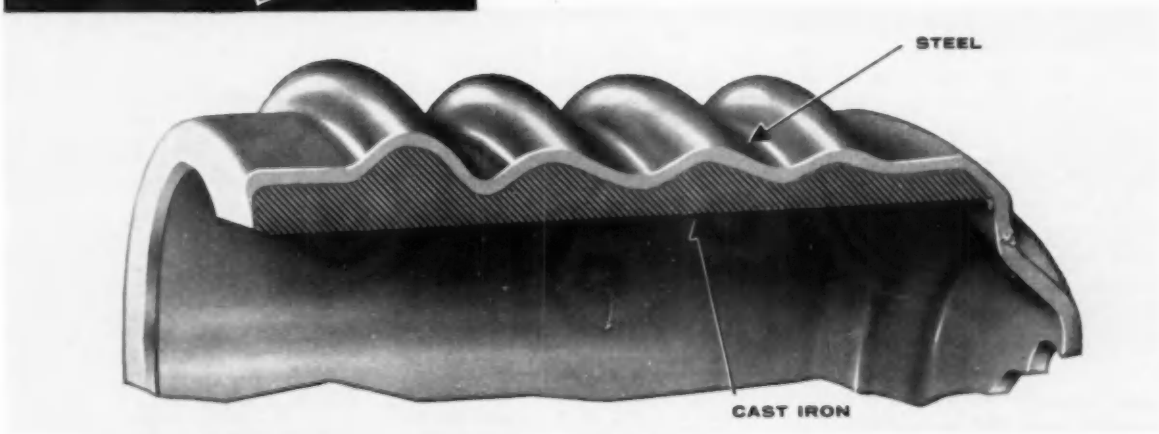


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SERVING THE AUTOMOTIVE INDUSTRY SINCE 1906

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**RETAINERS—continued**

Chicago Rawhide Mfg. Co., 1301 Elston Ave., Chicago 22, Ill.
Copeland-Gibson Products Corp., 12950 Capital Ave., Oak Park 37, Mich.
Crane Packing Co., 6435 Oakton St., Morton Grove, Ill.
Federal-Mogul Service Div. of Federal-Mogul-Bower Bearings, Inc., 11031 Shoemaker Rd., Detroit 13, Mich.
Felt Products Mfg. Co., 7450 N. McCormick Blvd., Chicago 80, Ill.
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Garlock Packing Co., 402 Main St., Palmyra, N. Y.
Graphite Metallizing Corp., 1083 Nepperhan Ave., Yonkers 3, N. Y.
Graton & Knight Co., 356 Franklin St., Worcester 4, Mass. (Synthetic, to order.)
Kickhoefer Mfg. Co., 901 S. 2nd St., Milwaukee 4, Wis.
Krug Co., North St., Barnum Court, Danbury, Conn.
Lothrop Co., Frank B., 81 River St., South Acton, Mass.
McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.
Mechanex Corp., 1144 Broadway, Denver 3, Colo.
Michigan Leather Products Co., 6301 E. Lafayette St., Detroit 7, Mich.
Muskegon Piston Ring Co., Muskegon Div. Sixth & Alpha Sts., Muskegon, Mich.
National Seal Div., Federal-Mogul-Bower Bearings, Inc., Broadway at National Ave., Redwood City, Calif.
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio.
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa.
Roberts Toledo Rubber Co., 4143 Monroe St., Toledo 13, Ohio.
Rodic Chemical & Rubber Corp., Allen Ave., New Brunswick, N. J.
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
Standard Seal Co., Van Wert, Ohio.
Steel-Bronze Sealing Rings Co., 540 S. Meridian St., Indianapolis 25, Ind.
Trostal Packings Ltd., Albert Lake, Geneva, Wis.
Union Bearing Co., 403 E. Jersey St., Elizabeth, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, N. Y. 20, N. Y.
Universal Oil-Seal Co., 34 W. Kennett Rd., Pontiac, Mich.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.
Western Felt Works, 4021 W. Ogden Ave., Chicago 23, Ill. (Felt.)

**RIMS, Wheel**

Cleveland Welding Div. American Machine & Fdry. Co., W. 117th St., & Berea Rd., Cleveland 11, Ohio.
Firestone Steel Products Co., 1600 Firestone Parkway, Akron 10, Ohio. (Bus and truck.)
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio. (Bus and truck.)
Kelsey-Hayes Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 785 E. Saginaw St., Lansing 3, Mich.

**RINGS, Piston**

Ace Products Co., 1820 N. 12th St., Toledo 1, Ohio.
American Hammered Automotive Replacement Div. 2001 Sanford St., Muskegon, Mich.
Burd Piston Ring Co., 1401 23rd Ave., Rockford, Ill.
Cord Piston Ring Mfg. Co., 1351 S. Olive St., Los Angeles 15, Calif.
Double Seal Ring Co., 2065 Montgomery St., Ft. Worth, Tex.
Gill Piston Ring Co., 2645 S. State St., Chicago 16, Ill.
Gilpak Automotive Products Div. Packer Auto Parts Inc., Roselle, N. J.
Haling Co., 1061 First Ave., Rochester, Minn.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
Luthy Co., F. A., 302 Cooper St., Jackson, Mich.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis 10, Mo.
Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Muskegon Piston Ring Co., Muskegon Div., Sixth & Alpha Sts., Muskegon, Mich.
Pacific Piston Ring Co., 1410 S. Los Angeles St., Los Angeles 15, Calif.
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo.
Republic Engr. & Mfg. Co., 6565 Wells Ave., St. Louis 14, Mo.
Richmond Ring Co., Souderton, Pa.
Roberts Mfg. Co., 118 Monroe St., St. Charles, Mo.
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.
Simplex Piston Ring Mfg. Co., 12301 Bennington Ave., Cleveland 11, Ohio.
Steel-Bronze Sealing Rings Co., 540 S. Meridian St., Indianapolis 25, Ind. (Steel or bronze.)
Superior Piston Ring Co., 6425 Epworth Blvd., Detroit 10, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Div. Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio.
Valv-Lite Piston Ring Co., Sheperd St., Toledo 1, Ohio.
Wausau Motors Parts Co., 1003 Harrison Blvd., Wausau, Wis.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.

**RINGS, PISTON EXPANDERS, See Expanders, Piston Ring**

**RIVETERS**

Barrett Equipment Co., 21st and Cass Ave., St. Louis 6, Mo.
Bunell Machine & Tool Co., 1601 E. 23rd St., Cleveland 14, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. (Portable pneumatic.)
Chicago Rivet & Machine Co., 9603 W. Jackson Blvd., Bellwood, Ill. (Chicago Suburb.)
Danly Machines Specialties, Inc., 2100 Laramie Ave., Chicago 50, Ill.
Ferracute Machine Co., 429 E. Commerce St., Bridgeton, N. J.
Grant Mfg. & Machine Co., 90 Sillman Ave., Bridgeport 5, Conn.
Hanna Engineering Works, 1765 Elston Ave., Chicago 22, Ill. (Pneumatic and hydraulic.)
Hannifin Corp., 1101 S. Kilbourn Ave., Chicago 24, Ill. (Hydraulic.)
High Speed Hammer Co., 813 Norton St., Rochester 5, N. Y.
Hydraulic Press Mfg. Co., Mount Gilead, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. (Portable pneumatic.)
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Lemert Engr. Co., 201 E. Jefferson St., Plymouth, Ind.
Lempco Products, Inc., 5727 Dunham Rd., Bedford, Ohio.
Milford Rivet & Machines Co., Post Rd., Milford, Conn.
National Rivet & Mfg. Co., Waupun, Wis.
Nugier Co., F. A., 1748 Berkeley St., Santa Monica, Calif. (Ring gear.)
Power Brake Parts Mfg. Co., 3435 S. Racine Ave., Chicago 8, Ill. (Pneumatic.)
Robinson Engineering & Sales Co., 16550 Wyoming Ave., Detroit 21, Mich.
Star Machine & Tool Co., 233 Sixth St., S.E., Minneapolis 14, Minn.
Tomkins-Johnson Co., 617 N. Mechanic St., Jackson, Mich.

**RIVETS, Blind**

Dill Mfg. Co., 700 E. 82nd St., Cleveland 8 Ohio.
Goodrich Industrial Products Co., B. F., 500 S. Main St., Akron, Ohio.
Hi-Shear Rivet Tool Co., 2600 W. 247th St., Torrance, Calif.
Huck Mfg. Co., 2480 Bellevue Ave., Detroit 7, Mich. (Aluminum and steel.)
South Chester Corp., Southco Div., 228 Industrial Highway, Lester, Pa.
Townsend Co., New Brighton, Pa.
United Shoe Machinery Corp., Pop Div., West Medway, Mass.

**RODS, CONNECTING, See Connecting Rods**

**RODS, Welding**

Acme Electric Welder Co., 2618 Fruitland Ave., Los Angeles 58, Calif.
Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.
Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Alloy Rods Co., W. Market St., York, Pa.
All-State Welding Alloys Co., 249 Ferris Ave., White Plains, N. Y.
Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa.
American Brass Co., 414 Meadow St., Waterbury 20, Conn.
American Steel & Wire Div., United States Steel Corp., Rockefeller Bldg., Cleveland 13, Ohio.
Ampco Metal, Inc., 1737 S. 38th St., Milwaukee 15, Wis. (Bronze.)
Atlantic Steel Co., 16th & Mecaslin St., Atlanta, Ga.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelphia 29, Pa.
Crucible Steel Co. of America, 535 Smithfield St., Pittsburgh, Pa.
Dockson Corp., 3839 Wabash Ave., Detroit 8, Mich.
Eutectic Welding Alloys Corp., 40-40 172nd St., Flushing, N. Y.
Forney Industries, 1820 La Porte Ave., Ft. Collins, Colo.
Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis.
Haynes Stellite Co., 725 S. Lindsay St., Kokomo, Ind. (Hard facing.)
Hobart Bros. Co., Canal Locks Square, Troy 1, Ohio.
International Nickel Co., 67 Wall St., New York 5, N. Y. (Cast iron.)
Krembs & Co., 669 W. Ohio St., Chicago 10, Ill.
Lincoln Electric Co., 22801 St. Clair Ave., Cleveland 17, Ohio.
Linde Co., 30 E. 42nd St., New York 17, N. Y. (Coiled.)
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind. (Resistance.)
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Metal & Thermit Corp., Rahway, N. J.
Miller Electric Mfg. Co., 718 S. Bounds St., Appleton, Wis.
Mueller Brass Co., 1925 Lapeer Ave., Port Huron, Mich.
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill.
Page Steel & Wire Div., American Chain & Cable Co., P. O. Box 692, Monessen, Pa.
Revere Copper and Brass, Inc., 230 Park Ave., N. Y. 17, N. Y. (Copper, brass and bronze.)
Sight Feed Generator Co., West Alexandria, Ohio.
Smith Corp., A. A., 27th & Hopkins Sts., Milwaukee 1, Wis.
Speer Carbon Co., St. Marys, Pa.
Titan Metal Mfg. Co., Bellefonte, Pa.
Wall Colmohoy Corp., 19345 John R St., Detroit 3, Mich.
Welding Equipment & Supply Co., 5225 E. Davison St., Detroit 12, Mich. (Tool steel; alloy.)
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.

**ROLLERS (Construction & Off Highway)**

Acme Iron Works (Ingram), P.O. Box 2020, San Antonio, Texas.
Austin Western Works, Construction Equipment Div., Baldwin-Lima-Hamilton Corp., 601 Farnsworth Ave., Aurora, Ill.
Browning Manufacturing Co., P.O. Box 2707, San Antonio, Texas.
Buffalo-Springfield Roller Co., 1210 Kenton St., Springfield, Ohio.
C. H. and E. Manufacturing Co., 3849 N. Palmer St., Milwaukee 12, Wis.
Huber-Warco Co., 202 N. Greenwood St., Marion, Ohio.
Seaman-Gunnison Corp., 2763 S. 27th St., Milwaukee 15, Wis.
Shovel Supply Co. (Ferguson), Box 1369—Zone 21, Dallas, Texas.
Tampo Manufacturing Co., P.O. Box 2340, San Antonio, Texas.

**ROTORS, DISTRIBUTORS, See Parts, Ignition**

**RUB-RAILS, PRESSED STEEL, See Rails, Rub, Pressed Steel**

**RUST PREVENTIVES, Cooling System**

Allube Corp., 928 Allen Ave., Glendale 1, Calif.

# "Phillips *66* Heavy Duty Motor Oil helps keep our maintenance costs low"

—E. J. (Jim) Swentor, Vice President and General Manager
O. K. Transfer, Inc., Kansas City, Kansas

O. K. Transfer was started in 1940 with one truck. Today it is one of Kansas City's outstanding cartage firms, operating 48 pieces of equipment.

A. W. Swentor, President of O. K. Transfer, says the company has used Phillips *66* Heavy Duty Motor Oil since it began operations. "We need the best of protection for our truck engines, because most of our driving is stop-and-go. Phillips *66* Heavy Duty Motor Oil is giving us outstanding performance," said Jim Swentor. "Our maintenance costs are low for the amount of equipment we operate. Matter of fact, we have a 10-year-old Ford cabover that's never had a major engine overhaul. We are completely satisfied. Phillips *66* Heavy Duty Motor Oil helps keep our maintenance cost low."

Get the best long term performance out of your fleet. Depend on the outstanding products and service offered by your Phillips *66* Distributor. Call him today for complete details.

Phillips 66

PHILLIPS PETROLEUM COMPANY

**SALES OFFICES:**

**AMARILLO, TEX.**—First Nat'l Bank Bldg.
**ATLANTA, GA.**—1428 West Peachtree St. Station "C" P.O. Box 7313
**CHICAGO, ILL.**—7 South Dearborn
**DENVER, COLO.**—1375 Kearney St.
**DES MOINES, IOWA**—6th Floor, Hubbell Bldg.
**HOUSTON, TEX.**—6910 Fannin St.
**INDIANAPOLIS, IND.**—3839 Meadows Drive
**KANSAS CITY, MO.**—201 E. Armour Blvd.
**MINNEAPOLIS, MINN.**—215 South 11th St.
**OMAHA, NEB.**—3212 Dodge St.
**RALEIGH, N. C.**—401 Oberlin Road
**SALT LAKE CITY, UTAH**—68 South Main
**ST. LOUIS, MO.**—4251 Lindell Blvd.
**SPOKANE, WASH.**—521 East Sprague
**TAMPA, FLA.**—3737 Neptune Street
**TULSA, OKLA.**—1708 Utica Square
**WICHITA, KAN.**—501 KFH Bldg.

# USE PHILLIPS *66* HEAVY DUTY MOTOR OILS

### RUST PREVENTIVES—continued

Alox Corp., Buffalo Ave. & Iroquois St., Niagara Falls, N. Y.
Alsol Products Co., 123 Coit St., Irvington, N. J.
Aluminum Industries, Inc., 2488 Beekman St., Cincinnati 25, Ohio.
American Sand-Banum Co., 1 N. Merrick Ave., Merrick, N. Y. (Colloidal tablets.)
Bar's Products Supply Inc., P. O. Box 146, Holly, Mich.
Barton Products Co., 1891 N. Winnebago Ave., Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Butler Eng. Co., 2610 Russeau St., New Orleans 11, La.
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass.
Chicago Hydraulic Oil Co., 371 E. 116th St., Chicago 28, Ill.
Choldun Mfg. Corp., 331 East St., New Haven, Conn.
Commercial Solvents Corp., 260 Madison Ave., New York 16, N. Y.
Drew & Co., E. F., 15 E. 26th St., New York, N. Y.
du Pont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, du Pont Bldg., Wilmington 98, Del.
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Corapolis, Pa.
Hood Refining Co., P.O. Box 566, Manor, Pa.
Insealtor, Inc., P.O. Box 146, Holly, Mich.
International Metal Polish Co., 1910 Quill St., Indianapolis 7, Ind.
Kelite Corp., 1250 No. Main St., Los Angeles 12, Calif.
K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
L & R Mfg. Co., 577 Elm St., Arlington, N. J. (Removing.)
Lenk Mfg. Co., Franklyn, Ky.
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Mirrorlike Mfg. Co., 36th St. & Queens Blvd., Long Island City, N. Y.
Motor Kool Products Co., 505 Buttles Ave., Columbus 8, Ohio.
National Carbon Co., 30 E. 42nd St., New York 17, N. Y.
Oakite Products, Inc., 19 Rector St., New York, N. Y.
Olin Mathieson Chemical Corp., Industrial Chemical Div., Mathieson Bldg., Baltimore 3, Md.
Park Chemical Co., 8024 Military Ave., Detroit 4, Mich.
Pennsylvania Refining Co., 2686 Lisbon Road, Cleveland 4, Ohio.
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.
Permo Products Co., 1629 Platte St., Denver 5, Colo.
Producers Ltd., 915 Fowler Ave., Evanston, Ill.
Radiator Seal Co., 120 Stutsman St., Council Bluffs, Iowa.
Radiator Specialty Co., 1400 W. Independence Blvd., Charlotte 1, N. C.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo.
Reynolds Ink Inc., 4500 Euclid Ave., Cleveland 3, Ohio.
Rust Master Chemical Co., 50 Creighton St., Boston, Mass.
Service Supply Co., 1115 7th St., Denver 2, Colo.
Sinclair Refining Co., 600 Fifth Ave., New York, N. Y.
Sodrin Corp., 2746 McGee Traffic Way, Kansas City, Mo.
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stanley Co., John T., 642 D. 30th St., New York 1, N. Y.
Stewart-Warner Corp., Alemite Div., 1826 Diversey Pkwy., Chicago 14, Ill.
Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa.
Tumbler Laboratories, J. A., 428 S. Hanover St., Baltimore 1, Md.
U. S. Chemical & Supply Co., 400 E. 10th Ave., North Kansas City 16, Mo.
Union Carbide Chemicals Co., 30 E. 42nd St., N. Y. 17, N. Y.
Universal Chemical Div., R. M. Hollingshead Corp., 840 Cooper St., Camden 2, N. J.
V-O Mfg. Co., 13165 Sherman Way, Hollywood, Calif.
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.
Warehouse Distributing Co., 3810 N. 19th St., Phila. 40, Pa.
Warner-Patterson Co., 920 S. Michigan Ave., Chicago 5, Ill.
Water Treatment Co. of America, 1159 Hodgkiss St., Pittsburgh 12, Pa.
Wayne Chemical Products Co., Copeland Ave. & M. C. R. R., Detroit 17, Mich.
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
Wynn Oil Co., 1151 W. Fifth St., Azusa, Calif.
"X" Laboratories, Inc., 25 W. 45th St., New York 19, N. Y.
Young Radiator Co., 709 S. Marquette St., Racine, Wis.
Zecol, Inc., 3270 S. Third St., Milwaukee 7, Wis.

### SANDERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Aro Equipment Corp., Bryan, Ohio.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio. (P. O. Box 966.)
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Clarke Sanding Machine Co., 30 E. Clay Ave., Muskegon, Mich.
Cummins Portable Tools, Div. of John Oster Mfg. Co., 505 N. Lydell Ave., Milwaukee 17, Wis.
Detroit Surfacing Machine Co., 1333 E. Eight Mile Rd., Detroit 20, Mich. (Reciprocating.)
Dremel Mfg. Co., 2420 18th St., Racine, Wis.
Jones Motrola Corp., 132 Fairfield Ave., Stamford, Conn.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.
National-Detroit Inc., 2810 Auburn St., Rockford, Ill.
Nedco Co., 27 Jones Rd., Waltham, Mass.
Portable Elect. Tools, Inc., 320 W. 83rd St., Chicago 20, Ill.
Porter-Cable Machine Co., 700 Marcelles St., Syracuse 4, N. Y.
Pratt & Whitney Co., Charter Oak Blvd., West Hartford 1, Conn.
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.
Remington Arms Co., 939 Barnum Ave., Bridgeport 2, Conn.
Scott Corp., Douglas, 3931 W. 150th St., Cleveland 11, Ohio.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Skil Corp., 5033 Elston Ave., Chicago 30, Ill. "SkilSander." (Belt and disc.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn.
Speed Way Mfg. Co., 1421 Barnsdale Rd., La Grange Park, Ill.
Sundstrand Machine Tool Co., Pneumatic Div., 2531 11th St., Rockford, Ill.
Thor Power Tool Co., Prudential Plaza, Chicago 1, Ill.
United States Electrical Tool Co., 3620 Llewelyn St., Cincinnati 23, Ohio.
Weller Electric Co., 601 Stone's Crossing Rd., Easton, Pa.
Wen Products, Inc., 5806 Northwest Highway, Chicago 31, Ill.

### SANDERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio. (P. O. Box 966.) (Bolt and disc types.)
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Cleco Div. of Reel Roller Bit Co., 5125 Clinton Dr., Houston 1, Tex.
Detroit Surfacing Machine Co., 1333 E. Eight Mile Rd., Detroit 20, Mich. (Reciprocating.)
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio.
National-Detroit Inc., 2810 Auburn St., Rockford, Ill.
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.
Thor Power Tool Co., Prudential Plaza, Chicago 1, Ill.
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.

### SANDERS, Vehicle Traction

Highway Safety Appliances, Div. of Napco Industries, Inc., 834 North Seventh St., Minneapolis 11, Minn.
Napco Industries Inc., Highway Safety Appliance Div., 834 N. Seventh St., Minneapolis 11, Minn. (Electric, for trucks & buses.)

### SANDPAPER

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Behr-Manning Corp., Troy, N. Y.
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.
Clover Mfg. Co., Norwalk, Conn.
Mid-West Abrasive Co., 510 S. Washington St., Owosso, Mich.
Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul 6, Minn.
Sandusky Abrasive Wheel Co., Park & Borden, Sycamore, Ill.

### SAWS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Cummins Portable Tools, Div. of John Oster Mfg. Co., 5055 N. Lydell Ave., Milwaukee 17, Wis.
Dremel Mfg. Co., 2420 18th St., Racine, Wis.
Forsberg Mfg. Co., 125 Sea View Ave., Bridgeport, Conn.
Greene & Sons, N. R., 3800 Lincolnway W., South Bend, Ind. (Hack saw attachment.)
Kett Tool Co., 5 E. Third St., Cincinnati 2, Ohio.
Key-Hak Div., Producers & Distributors Inc., 1321 Hanover Ave., Allentown, Pa.
Lipe-Rollway Corp., 806 Emerson Ave., Syracuse 4, N. Y. (Hack.)
Mid-States Welder Mfg. Co., 6025 S. Ashland Ave., Chicago 36, Ill. (Attachment, for sawing or filing.)
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.
Portable Electric Tools, Inc., 320 W. 83rd St., Chicago 20, Ill.
Porter-Cable Machine Co., 700 Marcelles St., Syracuse 4, N. Y.
Remington Arms Co., 939 Barnum Ave., Bridgeport 2, Conn.
Skil Corp., 5033 Elston Ave., Chicago 30, Ill.
Speed Way Mfg. Co., 1421 Barnsdale Rd., La Grange Park, Ill.
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa. (Attachment, for sawing and filing.)
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn.
Syntron Co., 495 N. Lexington Ave., Homer City, Pa.
Wren Products, Inc., 5806 Northwest Highway, Chicago 31, Ill.
Wyzenbeek & Staff, Inc., 223 N. California Ave., Chicago 12, Ill. (Attachments for sawing or filing.)

### SAWS, Portable Pneumatic

Key-Hak Div., Producers and Distributors, Inc., 1321 Hanover Ave., Allentown, Pa. (Also saw and file attachment for drills.)
Thor Power Tool Co., Prudential Plaza, Chicago 1, Ill.

### SAWS, Power Hack

Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa.
Covel Mfg. Co., Graham Ave., Benton Harbor, Mich.
Maquoketa Co., Clark & Maple Sts., Clinton, Iowa.
Peerless Machine Co., 1600 Junction Ave., Racine, Wis.
Racine Hydraulics & Machinery, Inc., 2000 Albert St., Racine, Wis.
Ryerson & Son, Inc., Jos. T., 16th & Rockwell Sts., Chicago, Ill.; also 1600 E. Euclid Ave., Detroit, Mich.
St. Louis Tool Co., 6100 Prescott St., St. Louis 15, Mo.

### SCALES, Weighing, Dial Type

Cemco Industries, Inc., First National Bank Bldg., Galion, Ohio. (Trailer kingpin weigher.)
Chatillon & Sons, John, 85-93 Cliff St., New York 38, N. Y.

**Detecto Scales, Inc., Div. Jacobs Bros. Co., 540 Park Ave., Brooklyn, N. Y.**
**Dillon & Co., W. C., 14620 Keswick St., Van Nuys, Calif.**
**Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.**
**Howe Scale Co., 3 Scale Ave., Rutland, Vt.**
Hydroway Scales Inc., 31302 Stephenson Hwy., Madison Heights, Mich.
Toledo Scale Co., Telegraph Rd., Toledo 13, Ohio.

## SCALES, Weighing, Platform Type

Bonded Scale & Machine Co., 83 Bellevue Ave., Columbus, Ohio.
**Buffalo Scale Co., 46 Letchworth St., Buffalo 18, N. Y.**
Chatillon & Sons, John, 85 Cliff St., New York 38, N. Y.
**Detecto Scales, Inc., Div. Jacobs Bros. Co., 540 Park Ave., Brooklyn, N. Y.**
**Exact Weight Scale Co., 944 W. Fifth Ave., Columbus 8, Ohio.**
**Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.**
Howe Scale Co., 3 Scale Ave., Rutland, Vt.
Toledo Scale Co., Telegraph Rd., Toledo 13, Ohio.

## SCRAPERS, Bearing

**Anderson Bros. Mfg. Co., 1907 Kishwaukee St., Rockford, Ill.**
Cornwell Quality Tools Co., Mogadore, Ohio.
**Millers Falls Co., Greenfield, Mass.**
**Osborne & Co., C. S., Jersey & Second Sts., Harrison, N. J.**

## SCRAPERS, Carbon

**Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich.**
Cal-Van Machine Products Inc., 809 S. Water St., Jackson, Mich.
**Cornwell Quality Tools Co., Mogadore, Ohio.**
**Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.**
Herbert Div. Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
**Mechanic's Tool & Forge Co., Howard St., Sabina 1, Ohio.**
**New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.**
**P & C Tool Co., Box 5926 Milwaukie, Ore.**
**Proto Tools, 2209 Sante Fe Ave., Los Angeles 54, Calif.**
Quality Tools Corp., Railroad St., New Wilmington, Pa.
**Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.**
**Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.**
**Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.**

## SCRAPERS (Construction & Off-Highway)

Allis-Chalmers Manufacturing Co., Box 512, Milwaukee 1, Wis.
Caterpillar Tractor Co., Peoria, Ill.
Euclid Div., General Motors Corp., 1361 Chardon Rd., Cleveland 17, Ohio.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
LeTourneau-Westinghouse Co., Peoria, Ill.
The Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
Wooldridge Manufacturing Div., Continental Copper & Steel Industries, Inc., Hendy Ave., Sunnyvale, Calif.

## SCREW DRIVERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City 3, Iowa.
**Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.**
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio.
**Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.**
**Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.**
**Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.**
Mall Tool Co., 25000 S. Western Ave., Forest Park, Ill.
**Millers Falls Co., Greenfield, Mass.**
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.
Skil Corp., 5033 Elston Ave., Chicago 30, Ill.
**Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.**
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.
**United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.**

## SCREW DRIVERS, Portable Pneumatic

Aro Equipment Co., Bryan, Ohio.
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Texas.
Dixon Automatic Tool Inc., 2300 23rd Ave., Rockford, Ill.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Div. Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.
Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio.
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.
Skil Corp., 5033 Elston Ave., Chicago 30, Ill.
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.
United Shoe Machinery Corp., 140 Federal St., Boston 7, Mass.

**SEALERS, BODY, See Compounds, Body Sealing**
**SEALERS FOR CASTING REPAIRS, See Cement, Cast Iron**
**SEALS, OIL & GREASE, See Retainers, Oil and Grease**

## SEATS, Bus

American Seating Co., 9th St. & Broadway, Grand Rapids, Mich. (Reclining.)
Amesbury Seat Mfg. Co., 200 S. River St., Ypsilanti, Mich.
General Seating Co., 220 Main St., Topton, Pa.
National Seating Co., 167 Park Ave. E., Mansfield, Ohio. (Sole distributors, George B. Cross Co., 624 S. Michigan Ave., Chicago 5, Ill.)
Transportation Seating, Div. of American Wicker Works, 1312 Harmon Pl., Minneapolis, Minn.
Troy Sunshade Co., Troy, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

## SEATS, Road Rebuilding Equipment

Perma Seating Co., 8770 Kinsman Rd., Cleveland 4, Ohio. (Upholstered.)

## SEATS, Truck

**(See also Cushions, Seat)**

American Seating Co., 9th St. & Broadway, Grand Rapids 2, Mich.
Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis. (Spring suspension.)
Comfort Cushion Co., 5062 Loraine Ave., Detroit 8, Mich.
General Seating Co., 220 Main St., Topton, Pa.
Ionia Mfg. Co., Div. of Mitchell-Bentley Corp., 121 S. Dexter St., Ionia, Mich.
Milsco Mfg. Co., 2758 N. 33rd St., Milwaukee 45, Wis.
Monroe Auto Equipment Co., 1426 E. First St., Monroe, Mich. (Spring suspension.)
National Seating Co., 167 Park Ave., E., Mansfield, Ohio. (Sole distributors, George B. Cross Co., 624 S. Michigan Ave., Chicago 5, Ill.)
Perma Seating Co., 8770 Kinsman Rd., Cleveland 4, Ohio.
Transportation Seating, Div. of American Wicker Works, 1312 Harmon Pl., Minneapolis, Minn.
Troy Sunshade Co., Troy, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

## SEATS, Valve

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Aluminum Industries Inc., 3670 Werk Rd., Cincinnati 11, Ohio.
Burd Piston Ring Co., Box 567, Eau Claire, Wis.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Eaton Mfg. Co., Saginaw Div., 1000 Rust St., Saginaw, Mich.
Haynes Stellite Co., 725 Lindsay St., Kokomo, Ind.
Hub City Iron Co., 218 First Ave., S. W., Aberdeen, S. D.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis.
Lee Co., K. O., Congress at First Ave., S. E. Aberdeen, S. D.
Parts Processing Corp., 1499 E. Michigan Ave., Battle Creek, Mich.
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
Peterson Machine Tool Inc., 6200 Merriam Dr., Merriam, Kans. (Screw-in type.)
Rich Mfg. Corp., 96 N. Division St., Battle Creek, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Div. Thompson Products, Inc., 6402 Cedar Rd., Cleveland 3, Ohio. (Cast iron.)
Versnick Mfg. Co., Madisonville, Ky.
Wausau Motor Parts Co., 1003 Harrison Blvd., Wausau, Wis.
Wells, Inc., Martin, 5886 Compton Ave., Los Angeles 1, Calif.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.

## SHAFTING, Flexible

AC, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Assemblies.)
Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Barbour-Stockwell Co., 205 Broadway, Cambridge 35, Mass.
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill. (Speedometer.)
Electric Auto-Lite Co., Toledo 1, Ohio.
Elliott Mfg. Co., B. W., 232 State St., Binghamton, N. Y.
Gilpak Automotive Products Div. of Packer Auto Parts Inc., Roselle, N. J.
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.
Hygrade Products Div., Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, N. Y. (Speedometer.)
Jarvis Corp., Middletown, Conn.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Speedometer; sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Parts Mfg. Co., 311 W. 66 St., N. Y. 23, N. Y.
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
**Speedometer Service Co., 151 Forest St., Montclair, N. J.**
**Stewart Mfg. Corp., F. W., 4311 N. Ravenswood Ave., Chicago, Ill.**
**Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago 14, Ill.**
**Stow Mfg. Co., 443 State St., Binghamton, N. Y. (Heavy duty.)**
Teleflex Inc., Box 218, North Wales, Pa.
**United Parts Mfg. Co., 1250 W. Van Buren St., Chicago 7, Ill.**
**United States Taximeter Co., 514 W. 54th St., New York 19, N. Y.**
**Valley Forge Products, Inc., 370 19th St. Brookyln 15, N. Y.**
Walker-Turner Div., Rockwell Mfg. Co., 400 N. Lexington Ave., Pittsburgh 8, Pa.
**Wheel Parts & Mfg. Co., 352 Fourth Ave., N. Y. 10, N. Y. (Speedometer.)**
**Wyzenbeek & Staff, Inc., 223 N. California Ave., Chicago 12, Ill.**

## SHAFTS, Power Take-off

**Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.**
**Muncie Parts Mfg. Co., 2601 S. Jefferson, Muncie, Ind.**
Stow Mfg. Co., 443 State St., Binghamton, N. Y.

## SHAFTS, Propeller

**(Shaft only; for universal joints—see Universal Joints)**

Cleveland Steel Products Corp., 16025 Brookpark Rd., Cleveland 11, Ohio.
**Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.**
**Detroit Bevel Gear Co., 8130 Jos Campau Ave., Detroit 11, Mich.**
**Dittmer Gear & Mfg. Corp., 198 Grand St., Lockport, N. Y.**
**Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive Inc., 2953 E. 55th St., Cleveland 27, Ohio.)**

### SHAFTS—continued

Mechanics Universal Joint Div., Borg-Warner Corp., 2020 Harrison Ave., Rockford, Ill.
Morse Chain Co., Ithaca, N. Y.
**Neapco Products, Inc., South & Cross Sts., Pottstown, Pa.**
**Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.**
Rockwell-Standard Corp., Transmission & Axle Div., 100 Clark Ave., Detroit 32, Mich.
**Saginaw Steering Gear Div., General Motors** Corp., 3900 Holland Rd., Saginaw, Mich.
Spencer Mfg. Co., 225 N. Main St., Spencer, Ohio.
**Steel and Tubes Div., Republic Steel Corp., 224 E. 121st Cleveland 8, Ohio.**
U. S. Axle Co., Water St., Pottstown, Pa.

### SHAFTS, Transmission and Clutch

Automotive Gear, Div. Eaton Mfg. Co., S. 8th & O Sts., Richmond, Ind.
Cleveland Hone & Mfg. Co., 8816 Harkness Rd., Cleveland 6, Ohio.
Detroit Bevel Gear Co., 8130 Jos. Campeau Ave., Detroit 11, Mich.
Dittmar Gear Div., Borg-Warner Corp., Auburn, Ind.
Modern Machine Works Inc., 5357 S. Kirkwood Ave., Cudahy, Wis.
Toledo Steel Products Co., 724 Monroe St., Toledo 1, Ohio. (Pump.)

### SHEARS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Millers Falls Co., Greenfield, Mass.
Skil Corp., 5033 Elston Ave., Chicago 30, Ill.
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn.

### SHIMS, Axle Caster

Accurate Products, Inc., 135 N. Spring St., Indianapolis, Ind.
Bean Div., Food machry & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa. (Bronze.)
Bender Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif.
Bennett-Feragen, 1408 Jerome St., Niles, Mich.
D & O Mfg. Co., P. O. Box 3843, Birmingham 8, Ala.
Dixie-Jibo Co., 2004 Mullanphy St., St. Louis 6, Mo.
Houser Engrg. & Mfg. Co., 200 E. Spring St., Bluffton, Ind.
Kwik-Ezee, Inc., 54 Brooklyn Ave., Westbury, N. Y.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Manbee Equip. Div., Bear Mfg. Co., P. O. Box 607, Rock Island, Ill.
Morgan Wheel & Equipment Co., 2007 St. Mary's Ave., Omaha 2, Neb.
Perfect Equipment Corp., 804 W. Morgan St., Kokomo, Ind.
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
Powell Mfg. Co., 813 Burlington Ave., Logansport, Ind.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.
Standard Supply Co., 5920 Bryant St., Pittsburgh 6, Pa.
Turner Mfg. Co., 404 W. Superior St., Kokomo 2, Ind.
Vanco Products Inc., 15330 Brookpart Rd., Cleveland 11, Ohio.

### SHIMS, Bearing Adjusting

Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.

### SHIMS, Brake Lining

Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Fibre.)
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
National Brake Block Co., 37-17 57th St., Woodside 77, N. Y.
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

### SHIMS, Brass and Copper

Acme Mfg. & Gasket Co., 733 N. 41st St., **Philadelphia 4, Pa.**
**Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.**
Gasket, Packing & Specialty Co., 41 N. Saxon Ave., Bay Shore, L. I., N. Y. (Brass.)
Keystone Gasket **Mfg. Co., 833 N. Fourth St.,** Philadelphia 23, Pa.
Kickhaefer **Mfg. Co., 901-903 S. Second St.,** Milwaukee 4, Wis.
**Konigslow Mfg. Co., Otto, 3600 Perkins Ave., Cleveland, Ohio.**
**Laminated Shim Co., 62 Union St., Glenbrook, Conn.**
**McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.**
National Seal Div., Federal-Mogul-Bower Bearings Inc., Broadway at National Ave., Redwood City, Cal. (Brass.)
Rotax Mfg. Co., 175 Ridge St., Newark 4, N. J. (Brass stock.)
**United Screw & Bolt Corp., 3590 W 58th St., Cleveland, Ohio.**
**Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill. (Brass.)**
**Whitehead Stamping Co., 1661 W. Lafayette Blvd., Detroit 16, Mich.**
**Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.**

### SHIMS, Laminated

**Blaisdell Mfg. Co., 1350 Coronado Ave., Long Beach 4, Calif.**
**Federal-Mogul Service Div. of Federal-Mogul-Bower Bearings, Inc., 11031 Shoemaker Rd., Detroit 13, Mich.**
Gasket Packing & Specialty Co., 41 N. Saxon Ave., Bay Shore, L. I., N. Y.
**Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.**
**Laminated Shim Co., 62 Union St., Glenbrook,** Conn. (Brass and Steel.)
National Seal Div., Federal-Mogul-Bower Bearings, Inc., Broadway at National Ave., Redwood City, Calif.
**Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.**

### SHIMS, Steel

**Acme Mfg. & Gasket Co., 733 N. 41st St., Philadelphia 4, Pa.**
Allmetal Screw Products Co., 821 Stewart Ave., Garden City, N. Y. (Stainless.)
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
Bender Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif.
**Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo. (Rear axle end play.)**
**Detroit Stamping Co., 357 Midland Ave., Detroit 3, Mich.**
Gasket, Packing & Specialty Co., 41 N. Saxon Ave., Bay Shore, L. I., N. Y.
**Jambor Tool & Stamping Co., 3057 N. 30th** St., Milwaukee 10, Wis.
**Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.**
**Konigslow Mfg. Co., Otto, 3600 Perkins Ave., Cleveland 14, Ohio.**
Laminated Shim Co., 62 Union St., Glenbrook, Conn.
National Seal Div., Federal-Mogul-Bower Bearings Inc., Broadway at National Ave., Redwood City, Calif.
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
**Standard Supply Co., 5920 Bryant St., Pittsburgh 6, Pa.**
**United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.**
**Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.**

### SHOCK ABSORBERS

Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill.
Briggs Shock Absorber Co., 1148 Euclid Ave., **Cleveland, Ohio. (Hydraulic.)**
**Delco Products Div., General Motors Corp., 329 E. First St., Dayton, Ohio. (Hydraulic.)**
Gabriel Co., 1148 Euclid Ave., Cleveland 15, Ohio.
Gilpak Automotive Products Div. of Packer Auto Parts Inc., Roselle, N. J.
GorDag Industries Inc., 3954 Woodale Ave., Minneapolis 16, Minn. (Spring.)
Heckethorn Mfg. & Supply Co., Dyersburg, Tenn. (Licensees.)
Houdaille Industries, Inc., Buffalo Hydraulics Div., 537 E. Delavan Ave., Buffalo 11, N. Y.
**Monroe Auto Equipment Co., 1426 E. First St., Monroe, Mich. (Hydraulic.)**
Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
**Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Hydraulic.)**
Toledo Steel Products Div., Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio.

**SHOCK ABSORBER FLUID, See Fluid, Hyd. Brake & Shock Absorber**

### SHOES, Brake

Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. (Bonded)
**Bendix Products Div., Bendix Aviation Corp.,** South Bend 20, Ind. (Lined.)
Fe-adco Corp., 12345 Schaefer Rd., Detroit 27, Mich.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Grizzly Mfg. Div. of MarPro Inc., 700 W. Caroline St., Paulding, Ohio.
Imco Mfg. & Sales Co., 10 E. Lafayette Ave., Baltimore 2, Md. (Lined and unlined)
**Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.**
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio.
National Vulcanized Fibre Co., Maryland Ave., & Beech St., Wilmington 99, Del. (Fibre.)
Pick Mfg. Co., West Bend, Wis. (Lined and unlined.)
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

### SHUTTERS, Radiator

**(See also Covers, Radiator)**

**Brewer-Titchener Corp., 115 Pt. Watson St.,** Cortland, N. Y. (For buses & trucks.)
Hardy Mfg. Corp., W. Pearl St., Union City, Ind.
**Kysor Heater Co., Haynes St., Cadillac, Mich.**
Minneapolis-Honeywell Regulator Co., Transportation Div., 2753 Fourth Ave., S., Minneapolis 8, Minn.

### SIGNALS, Direction Indicating

Advanced Mfg. Inc., 738 W. 17th St., Costa Mesa, Calif.
American Automatic Devices Co., Harrison, Troop & Congress Sts., Chicago 7, Ill.
Anthes Force Oiler Co., Ft. Madison, Iowa.
**Arrow Safety Device Co., Mt. Holly, N. J. (Also flashing stop lights.)**
**Auto Lamp Mfg. Co., 2909 S. Indiana Ave.,** Chicago 9, Ill. (Conversion units for converting parking, stop and tail lights into direction indicating signals.)
Betts Machine Co., 1800 Pennsylvania Ave. W., Warren, Ohio.
**Bolser Corp., S. Main St., Cedar Falls, Iowa.**
**Carolina Metal Products, Inc., 2222 South** Blvd., Charlotte, N. C.
**Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio.**
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y.
**Do-Ray Lamp Co., 1458 S. Michigan Ave.,** Chicago 5, Ill.
Electric Auto-Lite Co., Toledo 1, Ohio.
Electric Service Works, Delta Star Electric Div., H. K. Porter Co., 17th & Cambria Sts., Philadelphia 32, Pa.
Electroline Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.
Griffin Lamp Co., 401 S. Third St., Hamilton, **Ohio. (Also conversion kits.)**
**Grote Mfg. Co., Inc., Lafayette & Grandview Aves., Bellevue, Ky. (Also combinaton stop, tail and license brackets.)**
Guide Lamp Div. General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
**Industrial Scientific Co., P. O. Box 494, Fresno** 9, Calif. (Semaphore type.)
**K-D Lamp Co., 1910 Elm St., Cincinnati, 10,** Ohio.
**Kilborn-Sauer Co., Post Rd., Fairfield, Conn.**
**Miro-Flex Co., 1824 E. 2 St., Wichita 7, Kan.**
Parker Products, Inc., 1415 Washington Ave. S., Minneapolis 4, Minn.
Peterson Mfg. Co., 2716 E. 14th St., Kansas City 27, Mo.

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Among the many types of Fruehauf Trailers which McLean operates are Exterior Post Aluminum Volume☆Vans, (above), Smooth Panel Aluminum Volume☆Vans, (left), plus insulated, refrigerated, and open top units.

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*World's Largest Builder of Truck-Trailers*

**FRUEHAUF TRAILER COMPANY**

**10940 HARPER AVENUE • DETROIT 32, MICHIGAN**

### SIGNALS—continued

Rayl Mfg. Co., 217 5th St., Oakland 7, Calif.
King-Wald Products, 123 N. Lowry Ave., Springfield, Ohio. (Stop semaphores, for school buses.)
S. & M. Lamp Co., 119 W. 36th Pl., Los Angeles 54, Calif.
Signal-Stat Corp., Signal-Stat Bldg., 523 Kent Ave., Brooklyn 11, N. Y.
Sinko Mfg. & Tool Co., 3135 W. Grand Ave., Chicago 22, Ill. (Auxiliary.)
Sparton Automotive Div. of Sparks-Withington Co., Jackson, Mich. (Also stop lights and combination stop and tail and conversion kits.)
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.
Tung-Sol Electric Inc., Newark 4, N. J.
Turnsignal Co., 2720 W. Susquehanna Ave., Philadelphia 21, Pa.
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn 38, N. Y.
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Truck; also conversion units for converting parking and tail lights into flashing signals.)

### SIGNALS, Gasoline Tank

Scully Signal Co., 174 Green St., Melrose 76 Mass.

### SIGNALS, Low Air Pressure, Brakes

Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Berg Safe-Air Corp., 1712 S. Michigan Blvd., Chicago 16, Ill.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Fasco Industries Inc., 400 Davis St., Rochester 2, N. Y.
Hawk Tool & Engineering Co., 20 W. Washington St., Clarkston, Mich. (Sole distributors. Nason Co., 20 W. Washington St., Clarkston, Mich.)
Monroe Standard, Inc., P. O. Box 366, Galion, Ohio.
Synchro-Start Products, Inc., 8151 N. Ridgeway Ave., Skokie, Ill.
Wagner Electric Corp., 6470 Plymouth Ave., St. Louis 14, Mo.

### SIGNALS, Low Air Pressure, Tires

Tire Service Inc., 1210 Exchange Bank Bldg., Dallas 35, Texas.

### SIGNALS, Low Brake Fluid

General Metal Products Corp., Moore-Eastwood Div., 171 S. Mulberry St., Wilmington, Ohio.

### SIGNALS, Low Oil Pressure, Engine

Hawk Tool & Engineering Co., 20 W. Washington St., Clarkston, Mich. (Sole distributors, Nason Co., 20 W. Washington St., Clarkston, Mich.)
Kysor Heater Co., Haynes St., Cadillac, Mich.
Moto-Gard Co., 1104 W. Cabarrus St., Raleigh, N. C. (Also stops engine)
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago 14, Ill.
Synchro-Start Products, Inc., 8151 N. Ridgeway Ave., Skokie, Ill.

### SIGNALS, Low Vacuum (Brake)

Monroe Standard Inc., Wyandot Bldg., Galion, Ohio. (Trucks & buses.)

### SIGNALS, Low Water Temperature

Hawk Tool & Engineering Co., 20 W. Washington St., Clarkston, Mich. (Sole distributors, Nason Co., 20 W. Washington St., Clarkston, Mich.)
Kysor Heater Co., Haynes St., Cadillac, Mich.
Moto-Gard Co., 1104 W. Cabarrus St., Raleigh, N. C. (Also stops engine.)
Synchro-Start Products, Inc., 8151 N. Ridgeway, Skokie, Ill.
Water-Larm Corp., 404 S. E. 292nd Ave., Portland 33, Ore.

**SIRENS, HORN, See Horn Sirens**
**SIX WHEEL ATTACHMENTS, See Axle Units, Third, for Trucks**
**SLEEPER CABS, See Cabs, Truck Body**

### SLEEVES, Cylinder

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.
American Hammered Automotive Replacement Division of Sealed Power Corp., Accuralite Div., 2001 Sanford St., Muskegon, Mich.
Campbell, Wyant & Cannon Foundry Co., Muskegon, Mich. (Centrifugally cast.)
Centrifugal Foundry Co., 1367 W. Sherman Blvd., Muskegon, Mich.
Detroit Sleeve Mfg. Co., 9373 Hubbell St., Detroit 28, Mich.
Dura-Bond Bearing Co., 715 Loma Verde Ave., Palo Alto, Calif.
Ertel Products Co. Repl. Div. of Ertel Mfg. Corp., 1402 E. 20th St. Indianapolis, Ind.
Frank Foundries Corp., 2020 Third Ave., Moline, Ill.
Hub City Iron Co., 218 First Ave., S.W., Aberdeen, S. D.
Janney Cylinder Co., 7425 State Rd., Phila. 36, Pa. (Special to order.)
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Nylen Products, Inc., U. S. 12, Bridgman, Mich.
Ohio Piston & Machining Co., 5340 Hamilton Ave., Cleveland 14, Ohio.
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.
Shenango Furnace Co., Centrifugal Cast Products Div., Dover, Del.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Div. Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio. (Wet and dry assemblies.)
Versnick Mfg. Co., Madisonville, Ky. (Dry type.)
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.

**SLUDGE REMOVING COMPOUNDS, CRANKCASE, See Compounds, Crankcase Sludge Removing**

### SNOW PLOWS

**(See also Trucks, Diesel & Trucks, Gasoline)**

Arps Corp., 1920 Harrison St., New Holstein, Wis.
Badger Machine Co., 1124 W. 5th St., Winona, Minn.
Bros., Wm., Boiler & Mfg. Co., 1057 10th Ave., S. E., Minneapolis 14, Minn.
Burch Corp., Thoman St., Crestline, Ohio.
Eshelman Co., Cheston L., 109 Light St., Baltimore 2, Md.
Flink Co., 502 N. Vermillion St., Streator, Ill.
Four Wheel Drive Auto Company, E. 12th St., Clintonville, Wis.
Frink Sno-Plows, Inc., Clayton, Thousand Islands, N. Y. (Eastern United States.)
The Gledhill Road Machinery Co., S. State Rd., Galion, Ohio.
Good Roads Machinery Corp., Minerva, Ohio.
Gravely Tractors Inc., Dunbar, W. Va.
Howell Industrial Truck Co., 1083 Erie Cliff St., Cleveland 7, Ohio
International Equipment Div., Morrison Railway Supply Corp., P. O. Box 185, Sta. F, Buffalo, New York (Sole distributor Jack P. Hennessey Sales Co., Englewood, N. J.)
Meyer Prods., Inc., 3599 E. 82nd St., Cleveland 5, Ohio.
Monarch Road Machinery Co., 1331 Michigan St., N.E., Grand Rapids 3, Mich.
New England Road Machinery Co., 801 E. 6th St., Boston, Mass.
Napco Products Div., Napco Industries, Inc., 834 N. 7th St., Minneapolis, Minn. (For Willys Jeeps and light trucks.)
Root Spring Scraper Co., 527 W. North St., Kalamazoo 11, Mich.
Scheneker Iron Works, Inc., 350 Sycamore St., Buffalo 4, N. Y.
Scranton Truck Body & Equipment Co., 2341 Scranton Rd., Cleveland 13, Ohio.
Truck Engrg. Co., 3200 E. Pontiac St., Fort Wayne 4, Ind.
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.
Wausau Iron Works, Wausau, Wis.
Western Snowplow Div., Douglas Motors Corp., 1234 N. 62nd St., Milwaukee 13, Wis.

**SOAPS, CAR WASHING, See Detergents**

### SOLDERS, Body

All-State Welding Alloys Co., 273 Ferris Ave., White Plains, N. Y.
Alpha Metals, Inc., 56 Water St., Jersey City, N. J.
American Brass Co., Waterbury Brass Goods Branch, 26 Crane St., Waterbury 20, Conn.
American Platinum Works, N. J., R. R. Ave. at Oliver St., Newark 5, N. J.
Atomized Materials Co., 207 Rauch Bldg., Pittsburgh 5, Pa.
Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Bunker Hill Co., Fifth Fl., 600 Market St., San Francisco 4, Calif.
Division Lead Co., 7742 W. 61st Pl., Summit, Ill.
Dunton Co., M. W., 7 Goff St., Providence 3, R. I.
Empire Metal Co., 820 E. Water St., Syracuse 3, N. Y.
Farrelloy Co., 1243 N. 26th St., Philadelphia 21, Pa.
Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
Handy & Harmon, 82 Fulton St., New York 38, N. Y.
Hewitt Metals Corp., 12th St. at Stanley Ave., Detroit 8, Mich.
Kester Solder Co., 4201 Wrightwood Ave., Chicago 39, Ill.
Minnesota Mining & Mfg. Co., 791 Forest St., St. Paul, Minn.
National Lead Co., 111 Broadway, New York 6, N. Y.
New York Solder Co., 684 E. 133rd St., New York 54, N. Y.
North American Smelting Co., Marine Terminal, Wilmington, Del.
Park Chemical Co., 8074 Military Ave., Detroit 4, Mich.
Presstite-Keystone Engrg. Products Co., 3900 Chouteau St., St. Louis 10, Mo.
Press Work Inc., Lead Alloy Products Div., 9100 Roselawn Ave., Detroit 4, Mich.
Ren Plastics, Inc., Lansing 9, Mich.
River Smelting & Refining Co., 4195 Bradley Rd., Cleveland 1, Ohio.
Swiss Laboratory, 1533 Hamilton Ave., Cleveland 14, Ohio.
United American Metals Corp., 970 Meeker Ave., Brooklyn 22, N. Y.
Wayne Chemical Products Co., Copeland Ave. & M.C.R.R., Detroit, Mich.
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.

### SOLVENTS, Ice

Cristy Chemical Corp., 21 Putnam St., Worcester 4, Mass. (Ice preventing on windshield.)
Normandy Chemical Corp., 9th & Western, Muskegon, Mich.

### SOLVENTS, Oil, Carbon and Grease Removing

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.
Allube Corp., 928 Allen Ave., Glendale 1, Calif.
Alsol Prods. Co., 123 Coit St., Irvington, N. J.
Atomized Materials Co., 207 Rauch Bldg., Pittsburgh 5, Pa.
Barr & Co., W. M., 2336 S. Lauderdale St., Memphis 6, Tenn. (Sole distributors, Klean Strip Co., Box 3565, Memphis 6, Tenn.)
Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.
Blakeslee & Co., G. S., 1844 S. Laramie Ave., Cicero 50, Ill.
Brulin & Co., Inc., 2939 Columbia Ave., Indianapolis, Ind.
Buchanan Chemical Co., C. G., 4640 Baker Rd., Cincinnati 12, Ohio.
Cee-Bee Chemical Co., 9520 E. Ceebee Drive, Downey, Calif.
Celco Corp., 60 E. 42nd St., N. Y. 17, N. Y.
Circo Equipment Co., 120 Central Ave., Rahway, N. J.
Cities Service Oil Co. (Pa.), 60 Wall Tower, New York 5, N. Y.
Clayton Mfg. Co., 401 N. Temple Bldg., El Monte, Calif.
Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelpiha 29, Pa.
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.
Crystal Soap & Chemical Co., 6300 State Rd., Philadelphia 35, Pa.
Curran Corp., S. Canal St., Lawrence, Mass.
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa.
Delta Chemical Co., 2885 Warford Pl., Memphis 1, Tenn.
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.
Diversey Corp., 1820 Roscoe St., Chicago 13, Ill.
Dow Chemical Co., Midland, Mich.

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### SOLVENTS—continued

Drew & Co., E. F., Automotive Chemicals Div., 15 E. 26th St., New York, N. Y.
Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio.
du Pont de Nemours & Co., E. I., Electrochemicals Dept., Wilmington 98, Del.
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Ewing Mfg. Co., 2545 N.W. 10th St., Oklahoma City, Okla.
Fine Organics, Inc., 211 E. 19 St., New York 3, N. Y.
Fisher Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.
Gerlach Co., A. E., P. O. Box 133, Eddington, Bucks County, Pa.
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Graymills Corp., 3705 N. Lincoln Ave., Chicago 13, Ill.
Gunk Chicago Co., 630 N. Harlem Ave., River Forest, Ill.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa.
Heet Div. of Demert & Dougherty, Inc., 3001 W. 47th St., Chicago 32, Ill.
Hollingshead Co., R. M., 840 Cooper St., Camden, N. J. (For garage use.)
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Road, Coraopolis, Pa.
Independence Chemical Co., 606 S. Water St., Philadelphia 47, Pa.
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich.
International Metal Polish Co., 1910 Quill St., Indianapolis 7, Ind.
Jarrett Co., Cecil H., Mt. Olive Rd., Newton, N. C.
Kelite Corp., 1250 No. Main St., Los Angeles 12, Calif.
Kleer-Flo Co., 250 W. 57th St., New York 19, N. Y.
Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
Krylon Inc., Ford & Washington Sts., Norristown, Pa. (Oil & grease.)
L. & R Mfg. Co., 577 Elm St., Arlington, N. J.
Lord Chemical Co., 2068 S. Queen St., York, Pa.
Lubri-Loy Co., 6319 Wilson St., St. Louis 10, Mo.
M-M-A, Inc., Coho Bldg., Lancaster, Pa.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Mitchell-Bradford Chemical Co., Wampus Lane, Milford, Conn.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.
Octagon Process, Inc., 15 Bank St., Staten Island 1, N. Y. (Octastrip.)
Panther Chemical Co., P. O. Box 711, Fort Worth, Tex.
Park Chemical Co., 8074 Military Ave., Detroit 4, Mich.
Peck's Products Co., 610 E. Clarence Ave., St. Louis 15, Mo.
Penetone Co., 74 Hudson Ave., Tennafly, N. J.
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.
Penray Co., 1532 W. Fulton St., Chicago 7, Ill.
Permatex Co., Inc., 300 Broadway, Huntington Station, Long Island, N. Y.
Permo Products Co., 1629 Platte St., Denver 2, Colo.
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N.Y.
Philadelphia Quartz Co., 1146 Public Ledger Bldg., 6th & Chestnut Sts., Phila. 6, Pa.
Phillips Mfg. Co., 3475 Touhy Ave., Chicago 45, Ill. (Oil and grease.)
Quick Charge, Inc., 1750 N.E. Tenth St., Oklahoma City 4, Okla.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo.
Rust Master Chemical Corp., 56 Creighton St., Cambridge, Mass.
Service Supply Co., 1115 Seventh St., Denver 2, Colo.
Shaler Co., Waupun, Wis.
Shell Oil Co., 50 W. 50th St., New York 20, N. Y. (Oil.)
Speco Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stain-Ox Co., 625 E. First Ave., Roselle, N. J. (Oil and grease.)
Francisco 20, Calif.
Standard Oil of Calif., Western Operations Inc., 225 Bush St., San Francisco 20, Calif.
Stanley Co., John T., 642 W. 30th St., New York, N. Y.
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif.
U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo.
Union Carbide Chemicals Co., 30 E. 42nd St., N. Y. 17, N. Y.
Virginia-Carolina Chemical Corp., 401 E. Main St., Richmond, Va.
Waltham Precision Instrument Co., 221 Crescent, Waltham 54, Mass.
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.
White & Bagley Co., 100 Foster St., Worcester 8, Mass.
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

### SPACERS, Wheel

Lambert, Inc., Ansonia, Ohio. (Dual.)
SPARK PLUG CLEANERS, See Cleaners, Spark Plug

### SPARK PLUGS

AC The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Almquist Engrg. Co., Milford, Pa.
American Eagle "Perma-Gap" Spark Plug Corp., 8655 Military St., Detroit 4, Mich.
Auburn Spark Plug Co., York St., Auburn, N. Y.
B. G. Corp., 321 Broad Ave., Ridgefield, N. J.
Blue Crown Spark Plug Corp., P.O. Box 96, Defiance, Ohio.
Bowers Battery & Spark Plug Co., Reading, Pa.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Champion Spark Plug Co., 904 Upton Ave., Toledo 1, Ohio.
Continental Mfg. Corp., 10411 W. Washington Blvd., Culver City, Calif.
Defiance Spark Plug Corp., 323 20th St., Toledo, Ohio.
Doering Mfg. Corp., A. L., 99 Seacrest Ave., Eltingville, S. I. 12, N. Y.
Doran, Inc., James A., 36 W. Exchange Pl., Providence 3, R. I.
Electric Auto-Lite Co., Toledo 1, Ohio.
Engine Accessories Mfg. Co., 5801 Beverly Blvd., Los Angeles 22, Calif.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron 17, Ohio.
Gilpak Automotive Products Div. Packer Auto Parts Inc., Roselle, N. J.
Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Leonard Spark Plug Co., 148 Summit St., Newark 3, N. J. (Shielded.)
Luthy Co., F. A., 302 Cooper St., Jackson, Mich.
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich.
Trojan Products Co., 109 N. Union St., Galion, Ohio.
Tungsten Spark Plug Mfg., Tungsten Bldg., 1716 S. Michigan Ave., Chicago 16, Ill.

### SPEEDOMETERS

AC The Electronics Div. of General Motors 1300 N. Dort Highway, Flint 2, Mich.
Electric Auto-Lite Co., Toledo 1, Ohio.
Engler Instrument Co., 250 Culver Ave., Jersey City 5, N. J.
Jones-Motorola Corp., 432 Fairfield Ave., Stamford, Conn. (For fire engines, trucks, racing cars, etc.)
King-Seeley Corp., K-S Bldg., 315 S. First St., Ann Arbor, Mich.
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill. (Magnetic and electric.)
Waltham Watch Co., 221 Crescent St., Waltham 54, Mass.

### SPEEDOMETER CABLE

AC The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Hygrade Products Div., Standard Motor Products, Inc., 25-35 35th St., Long Island City, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Paragon Products Corp., 156 Astor St., Newark 5, N. J.
Parts Mfg. Co., 311 W. 66 St., N. Y. 23, N. Y.
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Speedometer Service Co., 151 Forest St., Montclair, N. J.
Stewart Mfg. Corp., F. W., 4311 Ravenswood Ave., Chicago, Ill.
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago 14, Ill.
Wyzenbeek & Staff, Inc., 836 W. Hubbard St., Chicago 22, Ill.

SPLASH GUARDS, See Guards, Splash
SPOTLIGHTS, See Lamps, Fog, Head, Spot
SPRAY BOOTH, See Booths, Spraying

### SPRAYERS, Molten Metal

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Metallizing Engineering Co., 1101 Prospect Ave., Westbury, Long Island, N. Y.
Wall Colomonoy Co., 19345 John R St., Detroit 3, Mich.

### SPRAYERS, Paint, Varnish, Lacquer, and Accessories

Bede Products Corp., Jackson St., Amherst, O.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Black Mfg. Co., 403 Penn St., Baltimore 30, Md.
Brown Corp., W. R., 2701 N. Normandy Ave., Chicago 35, Ill.
Campbell-Hausfeld Co., 211 Railroad Ave., Harrison, Ohio.
Cleveland Container Co., Abrasive Div., 3571 W. 62nd St., Cleveland 2, Ohio. (Spray gun heads for paint cans.)
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
DeVilbiss Co., 300 Phillips Ave., Toledo 1, O.
Dupli-Color Products Co., 2440 S. Michigan Ave., Chicago 16, Ill. (Operated from engine.)
G. M. Mfg. Co., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.
Gray Co., 54 11th Ave. N.E., Minneapolis 13.
Kelite Corp., 1250 N. Main St., Los Angeles, Calif.
M & E Mfg. Co., 2571 Winthrop Ave., Indianapolis 5, Ind.
Master Mfg. Co., 811 W. Cabrini St., Chicago 7, Ill.
Meiser & Co., G. H., P. O. Box 208, Blue Island, Ill.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Pioneer Air Compressor Co., 120 Chambers St., New York 7, N. Y.
Plummer Spray Equipment Co., 700 Fillmore St., Napoleon, Ohio.
Portable Elec. Tools, Inc., 320 W. 83 St., Chicago 20, Ill.
Ransburg Electro-Coating Co., 1234 Barth Ave., Indianapolis 7, Ind.
Saylor-Beall Mfg. Co., St. Johns, Mich.
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Calif.
Spray Engineering Co., 100 Cambridge St., Burlington, Mass.
Thomas Industries Inc., Electric Sprayit Div., 14th & Illinois Sts., Sheboygan, Wis.
Wilson, Inc., K. R., Arcade, N. Y.

### SPRAYERS, Undercoating

American Brake Shoe Co., Kellogg Div., Rochester 9, N. Y.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Black Mfg. Co., 201 2nd St., Harrison, N. J.
DeVilbiss Co., 300 Phillips Ave., Toledo, Ohio.
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Ws.
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn.
Hudson Mfg. Co., Railroad & Institute Sts., Conyers, Ga.
Lincoln Engrg. Co., 5701 National Bridge Ave St. Louis 20, Mo.
Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif. (Air operated.)
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill.
Stowe, Jr., George M., 277 Military Road Buffalo 7, N. Y.

SPREADERS, ROAD (Gravel, Salt, Sand), See Sanders, Road

### SPRINGS, Air

Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron 17, Ohio (Truck and trailer.)

General Tire & Rubber Co., Air Spring Div., Englewood & Holmes Ave., Akron 9, Ohio.
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, N. Y. 20, N. Y.

## SPRINGS, Helper

Automotive Aids Corp., 3526 W. Fort St., Detroit 16, Mich.
Bee-Line Co., P. O. Box 569, Davenport, Iowa.
Laher Spring & Tire Corp., 2615 Magnolia St., Oakland 7, Calif.
Maremont Automotive Products, Inc., S. Ashland Ave. at 16th St., Chicago 8, Ill.
Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Prior Products Co., 4828 Racell St., Dallas, Texas.
Service Spring Co., Box 638, Indianapolis 6, Ind.
St. Louis Spring Co., Div. Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Trainor National Spring Co., New Castle, Ind.
Tuthill Spring Co., 760 W. Polk St., Chicago 7, Ill.
Vulcan Spring Co., 755 Lexington St., Chicago 7, Ill.

## SPRINGS, Leaf

Benz Spring Co., 821 N. W. Ninth Ave., Portland 9, Ore.
Betts Spring Co., 868 Folsom St., San Francisco, Calif.
Burton Auto Spring Corp., 2433 W. 48th St., Chicago 32, Ill. (For trucks, trailers and buses.)
Champ Spring Co., 2107 Chouteau Ave., St. Louis, Mo.
Cincinnati Auto Spring Co., 5753 Este Ave., Cincinnati 32, Ohio. (For trucks and trailers.)
Detroit Steel Products Co., Div. of Fenestra Inc., 1500 Trombley Ave., Detroit 11, Mich.
Eaton Mfg. Co., Spring Div., 9771 French Road, Detroit, Mich.
Iron City Spring Co., 2920 Smallman St., Pittsburgh, Pa.
Koenig Iron Works Inc., P. O. Box 7726, Houston 7, Tex.
Laher Spring & Tire Corp., 2615 Magnolia Sts., Oakland 7, Calif.
Liggett Spring & Axle Co., Monongahela, Pa. (Truck and trailer.)
Mather Spring Co., P. O. Box 6695, Toledo, Ohio.
Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Republic Engr. & Mfg. Co., 6565 Wells Ave., St. Louis 14, Mo.
Rheem Automotive Co., 601 S. Placentia Ave., Fullerton, Calif. (Suspension.)
Rockwell-Standard Corp., 843 4th Ave., Coraopolis, Pa.
Service Spring Co., Box 638, Indianapolis 6, Ind.
Spring Perch Co., Hamburg Turnpike (P. O. Box 6), Lackawanna 18, N. Y.
Swartz Products Inc., 1230 W. School St., Chicago 13, Ill.
Trainor National Spring Co., Box 391, New Castle, Ind.
Triangle Auto Spring Corp., Maloney Rd. & B. & O. R. R., Dubois, Pa.
Tuthill Spring Co., 760 Polk St., Chicago 7, Ill.
Vail Spring Works, Inc., P. O. Box 4008, Broad Creek Sta., Norfolk, Va.
Vulcan Spring Co., 760 W. Polk St., Chicago, Ill.

## STANDS, Adjustable

Ajax Auto Parts Co., 1201 Michigan Blvd., Racine, Wis.
Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.
Bay Mfg. Div., Life Time Products Corp., Box 537-C, Youngstown 1, Ohio.
Cochin Mfg. Co., 1440 E. Grand Ave., South, San Francisco, Calif.
Edgewater Automotive Div., Auto Specialties Mfg. Co., St. Joseph, Mich.
Evans Reamer & Machine Co., New Lexington, Ohio.
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Manley Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
R V Jack Corp., P. O. Box 205, Arcade, N. Y.
Reliable Jack Div. of Dayton Malleable Iron Co., 1401 W. 2nd St., Dayton 1, Ohio.
Toledo Pressed Steel Co., 397 Phillips Ave., Toledo 12, Ohio. (Folding.)
Unit Mfg. Co., 1229 Harmon Pl., Minneapolis 3, Minn.
Wagner Mfg. Co., 122 W. First St., Cedar Falls, Iowa. (Folding.)
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Horses.)
Wilson, Inc., K. R., Arcade, N. Y.

**STANDS, AXLE REPAIR, REAR, See Stands, Engine Transmission Repair**

## STANDS, Body Parts Repair

Blackhawk Mfg. Co., 5325 W. Rogers St. Milwaukee 1, Wis.
Bustin Metal Products Co., Dover, N. J.

## STANDS, Electric Test

(For testing starting and lighting equipment; see also Analyzers, Trouble)
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13 F., Mich. (Generator.)
Crumbliss Mfg. Co., 3830 N. Podlin Dr., Franklin Park, Ill. (Regulator.)
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.
Heyer Industries Inc., 471 Cortlandt St., Belleville 9, N. J.
King Electric Equipment Co., 9123 Inman Ave., Cleveland 5, Ohio. (Generator and regulator.)
Mercury Electric Co., 719 Wyandotte St., Kansas City 6, Mo. (Generator.)
Nankervis Co., George L., 15300 Fullerton St., Detroit 27, Mich.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Regulator.)
Shurhit Products Inc., 845 S. Market St., Waukegan, Ill.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Weidenhoff Corp., Algona, Iowa.

## STANDS, Engine & Transmission Repair

Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa.
Cam Tool Co., 1038 Larkin St., San Francisco, Calif.
Cedar Rapids Engrg. Co., 902 17th St. N.E., Cedar Rapids, Iowa.
Clayborne Mfg. Co., 429 N. Main St., Monticello, Ind.
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Engine test.)
Cleveland Pneumatic Tool Co., Automotive Div., 3769 E. 77th St., Cleveland 5, Ohio.
Curtiss & Smith Mfg. Corp., 125 E. 4th St., Pottstown, Pa.
Evans Reamer & Machine Co., New Lexington, Ohio.
Houdaille Industries Inc., Mangel Div., 315 Babcock St., Buffalo 10, N. Y.
Globe Hoist Co., E. Mermaid Lane at Queen St., Philadelphia 18, Pa.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Manley Div. Douglas Motors Inc., 1234 N. 62nd St., Milwaukee 13, Wis.
Miller Mfg. Co., 17640 Grand River Ave., Detroit, Mich.
Montague Equipment Co., Box 222, Urbana, Ohio.
Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Tex.
Wilson, Inc., K. R., Arcade, N. Y.
Worthington Pump & Mchry. Corp., Harrison, N. J.

## STANDS, Portable (Tool and Parts)

Albertson & Co., 3100 Lowell Ave., Sioux City 3, Iowa.
Angle Steel Inc., 56 Oak St., Plainwell, Mich.
Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa.
Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.
Bay Products, Inc., 3001 N. 16th St., Phila. 32, Pa.
Bernard-Franklin Co., Hedley & Bath Sts., Phila. 37, Pa.
Bernard Gloekler N. East Co., Robinson & Wall Sts., North East, Pa.
Buck Mfg. Co., 1355 N. Tenth St., San Jose, Calif.
Colson Corp., Elyria, Ohio.
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
Economy Engrg. Co., 4511 W. Lake St., Chicago 24, Ill.
Equipto Div. Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill.
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Herman Co., Karl A., 412 Fuller Ave. N.E., Grand Rapids, Mich.
Huot Mfg. Co., 550 N. Wheeler Ave., St. Paul, Minn.
Kennedy Mfg. Co., N. Harrison St., Van Wert, Ohio.
Lincoln Engrg. Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
Nutting Truck & Caster Co., 1201 W. Division St., Faribault, Minn.
Overbeke-Kain Co., 20905 Aurora Ave., Bedford, Ohio.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Sheet Metal Specialty Div. of Follansbee Steel Corp., State St., Follansbee, W. Va.
Shure Mfg. Co., 1601 S. Hanley Rd., St. Louis 17, Mo.
Standard Pressed Steel Co., P. O. Box 395, Jenkintown, Pa.
Sturdi-Bilt Steel Products, Inc., 2501 Peterson Ave., Chicago 45, Ill.
Wilson, Inc., K. R., Arcade, N. Y.

## STARTING AID

Schauer Mfg. Corp., 4533 Alpine St., Cincinnati 36, Ohio.

**STARTING MOTOR DRIVE PARTS, See Parts, Starting Motor Drive**
**STARTING MOTORS, See Motors, Starting**
**STEAM CLEANERS, See Cleaners, Engine, Chassis and Fender**

## STEEL or IRON, Angle, Channel and Tee

Atlantic Steel Co., 16th & Mecaslin Sts., Atlanta 1, Ga. (Steel.)
Hynes Steel Products Co., 3760 Oakwood Ave., Youngstown, Ohio. (Angle steel.)
Inland Steel Co., 30 W. Monroe St., Chicago 3, Ill.
Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh 30, Pa. (Steel.)
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
United States Steel Corp., 525 Wm. Penn Pl., Pittsburgh 30, Pa.

## STEEL, Sheet

Acme-Newport Steel Co., Ninth & Lowell Sts., Newport, Ky.
Alan Wood Steel Co., Conshohocken, Pa. (Hot and cold rolled.)
American Nickeloid Co., Peru, Ill. (Nickel, chrome, copper and brass plated.)
Apollo Metal Works, Inc., Clearing Station, Chicago 38, Ill. (Chromium, nickel, copper or brass plated.)
Armco Steel Corp., 703 Curtis St., Middletown, Ohio. (Hot and cold rolled; also aluminized and stainless.)
Bethlehem Steel Co., Bethlehem, Pa.
Caine Steel Co., 5501 W. Grand Ave., Chicago 39, Ill.
Coatesville Plate Washer Co., 1644 Widener Bldg., Philadelphia 7, Pa.
Crucible Steel Co. of America, 535 Smithfield St., Pittsburgh, Pa.
Detroit Steel Corp., P.O. Box 4308, Detroit 9, Mich. (Hot and cold rolled.)
Eastern Stainless Steel Corp., P. O. Box 1975, Baltimore, Md. (Stainless.)
Great Lakes Steel Corp., Tecumseh Rd., Ecorse, Detroit 29, Mich. (Low carbon high tensile; cold and hot rolled.)
Hamden Steel & Aluminum Co., State & Edmund Sts., New Haven, Conn. (Cold rolled.)
Hynes Steel Products Co., 3760 Oakwood Ave., Youngstown, Ohio.

### STEEL—continued

Ingersoll Steel, Div. Borg-Warner Corp., P. O. Box 273, New Castle, Ind. (Carbon, alloy and stainless.)
Inland Steel Co., 30 W. Monroe St., Chicago 3, Ill. (Hot and cold rolled; enameled and galvanized.)
Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh 30, Pa.
Kaiser Steel Corp., 1924 Broadway, Oakland 12, Calif. (Hot and cold rolled.)
Pittsburgh Steel Co., 1600 Grant Bldg., Pittsburgh 30, Pa.
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio. (Stainless.)
Sharon Steel Corp., Sharon, Pa.
Superior Sheet Steel Co., Canton, Ohio.
Superior Steel Corp., 3112 Grant Bldg., Pittsburgh 19, Pa. (Copper, monel or nickel coated.)
Tennessee Coal & Iron Div. United States Steel Co., P. O. Box 599, Fairfield, Ala.
United States Steel Corp., 525 Wm. Penn Pl., Pittsburgh 30, Pa. (Also stainless.)
Universal-Cyclops Steel Corp., Station St., Bridgeville, Pa.
Washington Steel Corp., Griffith & Woodland Aves., Washington, Pa. (Stainless.)
Weirton Steel Co., Div. of National Steel Corp., Weirton, W. Va. (Hot and cold rolled zinc coated; galvanized.)
Wheeling Steel Corp., Wheeling Steel Bldg., Wheeling, W. Va.
Youngstown Sheet & Tube Co., P. O. Box 900, Youngstown 1, Ohio. (Hot and cold rolled.)

STEERING GEARS, See Gears, Steering

### STEERING, Power

Bendix Products Div. Bendix Aviation Corp., South Bend 20, Ind. (Hydraulic.)
Garrison Mfg. Co., 4609 E. Sheila St., Los Angeles 22, Cal.
Ross Gear & Tool Co., Inc., 800 Heath St., Lafayette, Ind. (Hydraulic.)
Saginaw Steering Gear Div. General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich. (Hydraulic.)
Sheppard Co., R. H., 101 Philadelphia St., Hanover, Pa.
Vickers, Inc., 1400 Oakman Blvd., Detroit 32, Mich. (Hydraulic.)

### STENCILS, For Lettering

Dicks Co., C. O., Detroit, Mich. (Lettering for trucks; cut paper masks for spraying.)

### STEPS, Truck Body

Bustin Metal Products Co., Dover, N. J. (Folding.)
Medley Mfg. Co., 2008 E. Slauson St., Huntington Park, Calif. (Side and rear.)
Mesco Products, Crete, Neb. (Folding.)
Miller Mfg. Co., 17640 Grand River Ave., Detroit 27, Mich. (For mechanic's use.)
Power Brake Parts Mfg. Co., 3435 S. Racine Ave., Chicago 8, Ill. (Maintenance stand.)
Turk Corp., C. K., 1122 Meshawaka Ave., South Bend 15, Ind. (Folding.)

### STRAIGHTENERS, Axle

Bean Div., Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Bennett-Feragen, 1408 Jerome St., Niles, Mich.
Builders Ornamental Iron Co., 4655 W. Arthington St., Chicago 44, Ill.
Manbee Equip. Div., Bear Mfg. Co., P.O. Box 607, Rock Island, Ill.

### STRAIGHTENERS, Frame

(See Also Presses, Straightening)

Bean Div. Food Mchry. & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Bender Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif.
Builders Ornamental Iron Co., 4655 W. Arthington St., Chicago 44, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Hydraulic, combination body and frame.)

STRAIGHTENERS, WHEEL, See Presses, Straightening (Wheel)

STRIPPERS, PAINT, See Removers, Paint, Enamel and Varnish

SUSPENSIONS, See Axle Susenpsion Units

### SWEEPERS, Road

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Austin-Western Co., Aurora, Ill.
Columbia Engineering Service Co., 173 14th St., San Francisco, Cal. (Magnetic Type.)
Elgin Sweeper Co., Elgin, Ill.
Esiez Manufacturing Co., 42 Magnet Drive, Erie, Pa.
Frink Sno-Plows, Inc., Clayton, Thousand Isle, N. Y.
Hough Co., Frank G., Libertyville, Ill.
Little Giant Products, Inc., 1530-60 N. Adams St., Peoria, Ill.
Wilshire Power Sweeper Co., 526 W. Chevy Chase, Glendale 4, Calif. (Road & floor.)

### SWITCHES, Direction Indicating Signal

Advanced Mfg. Inc., 738 W. 17th St., Costa Mesa, Calif.
Arrow Safety Device Co., Mt. Holly, N. J.
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago, Ill.
Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y.
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Marion Truck Equipment Co., 5275 S. Archer Ave., Chicago 32, Ill.
Mitchell Specialty Div., Industrial Enterprises Inc., Edmund & Shelmire Sts., Philadelphia, Pa.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products Inc., 1060 Broad St., Newark 2, N. J.)
Pollak Corp., Joseph, 75 Freeport St., Boston, 22, Mass.
Ring-Wald Products, 123 N. Lowry Ave., Springfield, Ohio. (For school buses.)
Saginaw Steering Gear Div., General Motors Corp., 3900 Holland Rd., Saginaw, Mich.
Signal-Stat Corp., 523 Kent Ave., Brooklyn 11, N. Y. (Combination directional signal switch and emergency flashing switch for disability parking.)
Sparton Automotive Div. of Sparks-Withington Co., Jackson, Mich. (Self-cancelling.)
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.
Valley Forge Products Inc., 370 19th St., Brooklyn 15, N. Y.
Yankee Metal Products Corp., 25 Grant St., Norwalk, Conn. (Self-cancelling.)

### SWITCHES, EMERGENCY, TRAILER

Robinson Engineering & Sales Co., 16550 Wyoming Ave., Detroit 21, Mich.

### SWITCHES, Floor or Foot

Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind. (Foot dimming.)
Echlin Mfg. Co., U. S. Route 1, Branford, Conn. (Dimming.)
Electric Auto Lite Co., Toledo 1, Ohio.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Headlight dimming.)
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.
General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y. (Headlight dimming.)
Guaranteed Parts Co., Seneca Falls, N. Y. (Headlight dimming.)
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y. (Headlight dimming.)
Illinois Accessories Co., 317 E. Ontario St., Chicago 11, Ill. (Headlight dimming foot.)
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kem Mfg. Co., 20 Wagaraw Rd., Fair Lawn, N. J.
M. D. Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. (Headlight dimming.)
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Headlight dimming.)
Ohio Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. (Headlight dimmer.)
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind. (Headlight dimming, foot operated.)
Sorenson Mfg. Co., 32-31 57th St., Woodside 77, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, L. I., N. Y. (Headlight dimming.)
Switches Inc., 317 E. Ontario St., Chicago 11, Ill. (Headlight dimming.)
Tasco Products Div. of Guaranteed Parts Co., Seneca Falls, N. Y.
Valley Forge Products Inc., 370 19th St., Brooklyn 15, N. Y.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

### SWITCHES, Heater

Ark-Les Switch Corp., 51 Water St., Watertown 72, Mass.
Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Culver-Stearns Mfg. Co., 181 Greenwood St., Worcester 7, Mass.
Cutler-Hammer, Inc., 362 N. 12th St., Milwaukee 1, Wis.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.
General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y.
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products Inc., 1060 Broad St., Newark 2, N. J.)
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, N. Y.
Tasco Products Div. of Guaranteed Parts Co., Seneca Falls, N. Y.
Valley Forge Products Inc., 370 19th St., Brooklyn 15, N. Y.

### SWITCHES, Ignition

Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
Briggs & Stratton Corp., 2711 N. 18th St., Milwaukee 1, Wis.
Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
DSM Electric Co., 6209 John Lodge Expressway, Detroit 2, Mich.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
Electric Auto-Lite Co., Toledo 1, Ohio.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.
General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y.
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.

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Amazing new VITALYTE is not an additive. A non-acid fluid replacement for the electrolyte in any wet-cell storage battery, it practically eliminates battery failure.

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Interstate Trucking Corp.
Continental Can Co.
Yale Transport Co.
Greyhound Lines
Gulf Atlantic Towing Corp.
Daniels Tug Boat Co.
Pan-American Airlines
Gilbert Carriers Corp.
Pennsylvania Trucking Lines
Minute Maid Frozen Products
Daitch-Shopwell Corp.
Baltimore Transfer Co.
Winter Garden Citrus Prod.
Westair Transport
United States Overseas Transport Corp.

**VITALYTE GUARANTEES**

- Increased Battery Life
- Increased Dependability
- Rapid Recovery
- No Corrosion
- No Battery Heat
- Less Fluid Evaporation
- Elimination of Sulphation
- No Explosion
- Higher Value Current

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### SWITCHES—continued

Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Mitchell Specialty Div., Industrial Enterprises Inc., Edmund & Shelmire Sts., Philadelphia, Pa.
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill.
Murphy Mfr. Inc., Frank W., 5428 E. Admiral Pl., Tulsa, Okla. (Magnetic.)
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Term. Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div. Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Scintilla Magneto Div. Bendix Aviation, Sidney, N. Y.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Switches Inc., 317 E. Ontario St., Chicago 11, Ill.
Synchro-Start Products, Inc., 8151 N. Ridgeway Ave., Skokie, Ill. (Automatic.)
Tasco Products Div. of Guaranteed Parts Co., Seneca Falls, N. Y.
Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

### SWITCHES, Ignition, Cut-Off

Almquist Engrg. Co., Milford, Pa.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Durakool, Inc., 1010 N. Main St., Elkhart, Ind.
Reynolds Electric Co., 3000 River Rd., River Grove, Ill.
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Synchro-Start Products, Inc., 8151 N. Ridgeway Ave., Skokie, Ill.

### SWITCHES, Light

Ark-Les Switch Corp., 51 Water St., Watertown 72, Mass.
Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Connecticut Telephone & Electric Corp., 85 Britannia St., Meriden, Conn.
Controls Corp. of America, Soreng Div., 9555 Soreng Ave., Schiller Park, Ill.
Culver-Stearns Mfg. Co., 181 Greenwood St., Worcester 7, Mass.
Cutler-Hammer, Inc., 362 N. 12th St., Milwaukee 1, Wis.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Delta Electric Co., 33rd & Nebraska Sts., Marion, Ind. (For dome lights.)
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
Electric Auto-Lite Co., Toledo 1, Ohio.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Fasco Industries Inc., 400 Davis St., Rochester 2, N. Y. (Headlamps.)
General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y. (Dash.)
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
Guaranteed Parts Co., Seneca Falls, N. Y.
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
Mitchell Specialty Div., Industrial Enterprises Inc., Edmund & Shelmire Sts., Philadelphia 36, Pa.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products Inc., 1060 Broad St., Newark 2, N. J.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Regal Motor Products, Inc., 6325 Grand River Ave., Detroit 8, Mich.
Rhodes Inc., M. H., 30 Bartholomew Ave., Hartford 6, Conn.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, N. Y.
Tasco Products Div. of Guaranteed Parts Co., Seneca Falls, N. Y.
Wade Electric Products Co., 211 N. Jacobs St., Sturgis, Mich.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

### SWITCHES, Starter

American Motor Products Co., Fond du Lac, Wis.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y.
Auto-Test Inc., 600 S. Michigan Ave., Chicago 5, Ill. (Remote control.)
Carter Parts Co., 213 Institute Place, Chicago 10, Ill.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.
Echlin Mfg. Co., U. S. Route 1, Branford, Conn.
Electra Mfg. Co., 800 N. 21st St., Independence, Kans.
Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite." (Solenoid.)
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Solenoid.)
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.
General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y.
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.
Illinois Accessories Co., 317 E. Ontario St., Chicago 11, Ill.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio.
M D Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Ohio Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.
Sorensen Mfg. Co., 32-31 57th St., Woodside 77, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
Switches Inc., 317 E. Ontario St., Chicago 11, Ill.
Tasco Products Div. of Guaranteed Parts Co., Seneca Falls, N. Y.
Valley Forge Products Inc., 370 19th St., Brooklyn 15, N. Y.
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

### SWITCHES, Stop Light

American Motor Products Co., Fond du Lac, Wis.
Ark-Les Switch Corp., 51 Water St., Watertown 72, Mass.
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Carter Parts Co., 3401 W. Madison St., Skokie, Ill.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delta Electric Co., 33rd & Nebraska Sts., Marion, Ind.
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
Eis Automotive Corp., Box 701, Middletown, Conn.
Electric Auto-Lite Co., Toledo 1, Ohio.
Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. (Trailer.)
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Master Parts Div. Airtex Products Inc., Fairfield, Ill.
Midland-Ross Corp., Owosso Div., 490 S. Chestnut St., Owosso, Mich.
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill.
Murray Corp., E. Joppa Rd., Towson 4, Md.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Perfect Parts Inc., 43 W. 23rd St., New York 10, N. Y.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Robinson Engineering & Sales Co., 16550 Wyoming Ave., Detroit 21, Mich.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, Long Island, N. Y.
Tasco Products Div. of Guaranteed Parts Co., Seneca Falls, N. Y.
Valley Forge Products Inc., 370 19th St., Brooklyn 15, N. Y.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.
Wells Mfg. Corp., 12 S. Brooke St., Fond du Lac, Wis.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Yankee Metal Products Corp., 31 Grand St., Norwalk, Conn.

**SYNCHRONIZERS.** See Instruments, Distributor Testing

### TACHOMETERS, Engine Testing

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Electric.)
Auto-Test Inc., 600 S. Michigan Ave., Chicago 5, Ill.
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.
Kal-Equip Co., 411 Washington St., Otsego, Mich.
King Electric Equipment Co., 9115 Inman Ave., Cleveland 5, Ohio.
Motoraide Corp., 2400 Emerald St., Philadelphia 25, Pa. (Electric.)
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Electric.)
Weidenhoff Corp., Algona, Iowa.
Westberg Mfg. Co., 144 S. Coombs St., Napa, Calif.

### TACHOMETERS, Speed

AC The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Electric.)
Almquist Engrg. Co., Milford, Pa.
Amthor Testing Instrument Co., 45 Van Sinderen Ave., Brooklyn 7, N. Y.
Barbour-Stockwell Co., 205 Broadway, Cambridge 35, Mass.
Biddle Co., James G., 1316 Arch St., Philadelphia 7, Pa.
Bristol Co., Waterbury 20, Conn.
Electro-Mechano Co., 261 E. Erie St., Milwaukee 2, Wis.
Engler Instrument Co., 250 Culver Ave., Jersey City 5, N. J.
Esterline-Angus Co., P. O. Box 596, Indianapolis 6, Ind.
Herbrand Div. Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Jones-Motrola Corp., 432 Fairfield Ave., Stamford, Conn.
King-Sieley Corp., 315 S. First St., Ann Arbor, Mich.

Al Quillen, Supervisor of Equipment for Truck Rental, Inc., (right) reviews the outstanding mileage record of a Cooper Road-Master with Walt Davis, Cooper Representative.

# Cooper Road-Masters cut tire costs below 1 cent for truck leasing operator

Truck Rental, Inc., Baltimore, Md., is one of America's largest car and truck leasing firms. More than 1000 "for hire" units of all types require a minimum of 5,136 tires on the ground, plus 350 spares — 5,486 tires in all.

Abuse and neglect of tires are constant cost factors in any rental service operation. Yet, Truck Rental reports outstanding savings since changing to Cooper for both passenger cars and trucks. Cost of tires averages less than 1 cent per vehicle mile. Truck Rental gives new type Cooper Road-Master truck tires the big share of credit for cutting operating expenses and increasing profits.

**Million Dollar Marvel**

A new million dollar cord processing mill is one reason why Cooper Road-Masters cut costs for Truck Rental. Rated as the industry's newest and most modern, this new electronic mill produces a superior type of high tension (Hi-T) cord that is actually stronger than steel cable, pound for pound. It's cooler running, too.

**No Tire Trouble**

Cooper electronically processed "Hi-T" cord is now combined with the extra layer strength of Cooper Shock-Guard construction to give a practically damage-proof tire. Literally hundreds of Cooper Road-Master users report complete freedom from the common causes of tire trouble. Plus up to 45% more mileage. Plus as many as 4 and 5 bonus recaps.

**Save Money**

New Cooper Road-Masters cost less to buy and are available in three price ranges — including "Hi-T" rayon and nylon cord types. Lower buying prices and lower tire costs are as near as your Cooper truck tire dealer. Call him today. Or write Dept. 119 direct for prices and information. Cooper Tire & Rubber Company, Findlay, Ohio.

Over 11 million leased miles are sold annually from Truck Rental's Baltimore, York, Pa., and Washington offices. Baltimore office (above) is headquarters for this Cooper Road-Master user.

Cooper TIRES

. . . miles ahead

### TACHOMETERS—continued

Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Metron Instrument Co., 432 Lincoln St., Denver 9, Colo. (Electric.)
Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Windrim Aves., Philadelphia 44, Pa.
Photocon Research Laboratories, 421 N. Altadena Dr., Pasadena 8, Calif.
Stewart-Warner Corp., Instrument Div. 1826 Diversey Parkway, Chicago, Ill. (Electric and mechanical.)
Sticht Co., Herman H., 27 Park Place, New York, N. Y.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Veeder-Root, Inc., 20 Sargeant St., Hartford 2, Conn.
Waltham Precision Instrument Co., 221 Crescent St., Waltham 54, Mass.
Westberg Mfg. Co., 144 S. Coombs St., Napa, Calif.
Zernickow Co., O., 15 Park Row, New York 38, N. Y.

**TACHOGRAPHS, See Recorders, Vehicle Movement**

**TAILGATE LOADERS, See Loaders, Truck (Elevating Tailgate)**

**TAIL PIPES, See Pipes, Tail and Exhaust**

### TAKE-OFFS, Power

Adams Engineering Co., 31711 Solon Rd., Solon, Ohio.
Automotive Gear Div. Eaton Mfg. Co., S. 8th & O Sts., Richmond, Ind.
Cemco Industries, Inc., Galion, Ohio. (Split shaft.)
Chelsea Products, Inc., 21 Buchanan St., Chelsea, Mich.
Cotta Transmission Co., 2340 11th St., Rockford, Ill.
Couse Mfg. Inc., 300 Pacific St., Newark 4, N. J.
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.
Detroit Harvester Co., Paris Products Div., Paris, Ky.
F. A. B. Mfg. Co., 1249 67th St., Oakland 8, Calif.
Funk Aircraft Co., 1211 W. 12th St., Coffeyville, Kans.
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. (With hoist, winch and crane.)
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, Ill.
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.
Holan Corp., J. H., 4100 W. 150th St., Cleveland 35, Ohio.
Lempco Products Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade Lempco Automotive Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Maday Body & Equipment Corp., 575 Howard St., Buffalo 6, N. Y.
Mobile Power Co., 400 Leland Pl., Lansing, Mich.
Muncie Parts Mfg. Co., 2601 S. Jefferson St., Muncie, Ind.
Rockford Clutch Div., Borg-Warner Corp., 1319 18th Ave., Rockford, Ill.
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.
Stow Mfg. Co., 443 State St., Binghamton, N. Y. (Flexible shaft.)
Truckstell Mfg., 1437 Union Commerce Bldg., Cleveland 14, Ohio.
Tulsa Winch, Div. of Vickers, Inc., 815 E. First St., Tulsa 20, Okla.
Twin Disc Clutch Co., 1328 Racine St., Racine, Wis.
Watson Co., H. S., 1316 67th St., Emeryville, Calif.
Western Gear Works, 2600 E. Imperial Highway, Lynwood, Calif.

**TALC, TIRE, See Lubricants, Tire**

**TANK BODIES, See Tanks, Trailer and Truck Body**

### TANKS, Fuel Supply

American Safety Tank Co., 3937 Main St., Kansas City 11, Mo.
Anderson Co., O. L., 1347 E. Fort St., Detroit 7, Mich.
Chilton Metal Products Inc., 300 Breed St., Chilton, Wis.
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
Fontaine Truck Equipment Co., 1232 37th Place N., Birmingham, Ala. (Auxiliary gasoline.)
Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio.
M D Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif. (For jeeps.)
Master Tank & Welding, 1612 Singleton Blvd., Dallas 2, Tex.
Michigan Fleet Equipment Co., 2350 Chicago Drive S. W., Grand Rapids, Mich.
Mitchell Metal Products Inc., 6501 Cedar Ave., Cleveland 3, Ohio.
Prior Products, Inc., 4828 Racell St., Dallas, Tex. (Combination tank, tool chest and jack well.)
Snyder Tank Corp., 3773 Lake Shore Blvd. (P. O. Box 14), Buffalo 5, N. Y.
Stolper Steel Products Corp., 300 Pilgrim Rd., Menominee Falls, Wis.
Western Metal Specialty Div. Western Industries Inc., 1213 N. 62nd St., Milwaukee 13, Wis. (Also LP-gas.)

**TANKS, METAL PARTS WASHING, See Washers (Metal Parts)**

### TANKS, Oil, Portable

(Tanks and pumps on wheels)

Bowser, Inc., 1302 E. Creighton Ave., Ft. Wayne 2, Ind.
Erie Meter Systems, Inc., 1602 Wagner Ave., Erie, Pa.
Gilbert & Barker Mfg. Co., Springfield, Mass.
Grigg Specialty Tools, 8103 Marbisa Ave., Huntington Park, Calif.

### TANKS, Tire and Tube Testing

Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif.
Big Four Industries Inc., 5938 Carthage Court, Cincinnati, Ohio.
Bishman Mfg. Co., Osseo, Minn.
Coats Co., 3001 Fifth Ave. S., Fort Dodge, Ia. (Sole distributors; Jack P. Hennessy Sales Co., 12 Depot Square, Englewood, N. J.)
Independent Iron Works 8th & Pine Sts., Oakland 20, Calif.
Kennedy Service Tools Co., 788 Evans Ave., Akron 5, Ohio.
Lawson Co., F. H., 801 Evans St., Cincinnati 4, Ohio.

### TANKS, Trailer and Truck Body

American Body & Equipment Co., Ft. Worth-Dallas Pike, Dallas, Tex. (Milk truck.)
American Steel Works, 1211 W. 27th St., Kansas City, Mo.
Andrews Industries, Inc., 7901 Alabama Ave., St. Louis 11, Mo.
Auto Truck Steel Body Co., 3040 Carroll Ave., Chicago 12, Ill.
Beall Pipe & Tank Corp., 12005 N. Burgard St., Portland 3, Ore.
Boston Steel & Mfg. Co., 112 Bryant St., Malden 48, Mass. (Oil and gasoline truck.)
Butler Mfg. Co., 7400 E. 13th St., Kansas City 26, Mo.
Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y. (Fuel truck to order.)
Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
Eaton Metal Products Corp., 13th St. & Willis Ave., Omaha 2, Nebr.
Farrell Mfg. Co., 804 E. Cass St., Joliet, Ill.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Gary Steel Products Corp., P. O. Box 449, Lynchburg, Va. (Trailer to order.)
Gate City Steel Inc., 4000 Warm Springs Ave., Boise, Idaho.
General Body & Hoist Co., Paris & Garvey Sts., Everett 49, Mass.
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis. (Plastic.)
Hews Body Co., 87 St. John St., Portland 4, Me.
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.
Industrial Steel Tank & Body Works Inc., 2533 Fourth St., Berkeley 10, Calif.
Joplin Body & Trailer, Inc., 730 E. 5th St., Joplin, Mo.
Kaustine Furnace & Tank Corp., Perry, N. Y.
Kennedy Tank & Mfg. Co., 833 E. Sumner Ave., Indianapolis 27, Ind.
Lang Co., 267 W. 1st South St., Salt Lake City 10, Utah (Truck.)
Master Tank & Welding, 1612 Singleton Blvd., Dallas 2, Tex.
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.
Niles Steel Tank Co., Niles, Mich.
Pacific Coast Engr. Co., Oak & Clement Sts., Alameda, Calif. (To Order.)
Pennsylvania Furnace & Iron Co., 316 Pine St., Warren, Pa.
Portersville Stainless Equipment Corp., Portersville, Pa.
Press' Sons, Inc., Jacob, 501 W. 33rd St., Chicago 16, Ill.
Progress Mfg. Co., Oil Equipment Div., Arthur, Ill. (Steel, aluminum and stainless steel.)
Providence Body Co., 750 Wellington Ave., Cranston, R. I.
Quaker City Iron Works, Aramingo & Ontario Sts., Philadelphia 34, Pa.
Rock Hill Body Co., W. Main St., Rock Hill, S. C.
Sharpsville Steel Fabricators, Inc., Sharpsville, Pa.
Stainless Steel Products Co., 1000 Berry Ave., St. Paul 14, Minn. (Stainless steel.)
Standard Steel Works Inc., 16th & Howell Sts., North Kansas City 16, Mo.
Stoughton Cab & Body Co., 408 E. South St., Stoughton, Wis. (Milk.)
Superior Metal Products, Inc., Branson & 18th Sts., Marion, Ind. (To order.)
Truck Welding & Equipment Co., 739 Ninth Ave., N., Seattle 9, Wash.
Wentworth & Irwin, Inc., 123 N. E. Oregon St., Portland 14, Ore.
Wichita Body & Equipment Co., 1926 N. Broadway, Wichita 12, Kan. (Live fish transport.)
Wilco, Inc., 400 E. Decatur St., Kenton, Ohio.
Wright Co., Thomas, 185 Dey St., Jersey City 6, N. J.

### TANKS and SYSTEMS, Gasoline and Oil Storage

Airtherm Mfg. Co., 700 S. Spring Ave., St. Louis 10, Mo.
Biggs Steel Fdry & Fabricating Co., 1007 Bank St., Akron, Ohio.
Birmingham Tank Co., Div. of Ingalls Iron Works Co., 620 Ave. D, Birmingham, Ala. (Tanks.)
Bowser, Inc., 1302 E. Creighton Ave., Fort Wayne 2, Ind.
Butler Mfg. Co., 7400 E. 13th St., Kansas City 26, Mo.
Chicago Boiler Co., 1965 Clybourn Ave., Chicago 14, Ill. (Underground tanks.)
Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.
Crenlo Inc., 1600 Fourth Ave. N.W., Rochester, Minn.
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
Eaton Metal Products Corp., 13th St. & Willis Ave., Omaha 2, Nebr.
Erie Meter Systems, Inc., 1602 Wagner Ave., Erie, Pa. (Systems.)
Farrell Mfg. Co., Joliet, Ill.
Independent Iron Works, 8th & Pine Sts., Oakland 20, Calif.
Kaustine Co., Perry, N. Y. (Tanks.)
Kennedy Tank & Mfg. Co., 833 E. Sumner Ave., Indianapolis 27, Ind.
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.
Niles Steel Tank Co., Niles, Mich.
Petroleum Systems, Inc., 2914 E. Grand Blvd., Detroit 2, Mich. (Hydraulic flotation system.)
Progress Mfg. Co., Oil Equipment Div., Arthur, Ill.
Quaker City Iron Works, Aramingo & Ontario Sts., Philadelphia 34, Pa.
Richmond Engineering Co., Seventh & Hospital Sts., Richmond 1, Va. (Tanks.)
Sharpsville Steel Fabricators, Inc., Sharpsville, Pa.
Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif.
United States Steel Products Div. United States Steel Co., 5100 Santa Fe Ave., Los Angeles 58, Calif. (Tanks.)
Wilson's Sons, Inc., Wm. M., 8th St. & Franconia Ave., Lansdale, Pa.
Wood Co., John, Bennett Pump Div., Muskegon, Mich.

### TAPPETS, Valve

Accurate Products Inc., 135 N. Spring St., Indianapolis, Ind.
Allied Precision Products, 600 E. San Christopher Drive, Dunedin, Fla. (Hydraulic and mechanical.)

Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Chicago Screw Co., Div. of Standard Screw Co., 2701 Washington Blvd., Bellwood, Ill. (Hydraulic and mechanical.)
Diesel Equipment Div., General Motors Corp., 2100 Burlingame Ave. S.W., Grand Rapids 2, Mich. (Hydraulic.)
Eaton Mfg. Co., Saginaw Div., 1000 Rust St., Saginaw, Mich. (Also hydraulic and self-adjusting.)
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind.
Ertel Products Corp., Repl. Div. of Ertel Mfg. Corp., 1402 E. 20th St., Indianapolis, Ind.
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.
Johnson Products, Inc., 1185 E. Keating Ave., Muskegon, Mich.
Thompson Products Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Automatic self-contained.)
Wohlert Corp., 700 E. Grand River Drive, Lansing 5, Mich. (Hydraulic and mechanical.)
Wolverine Gear & Parts Co., Osseo, Mich.

**TARPAULINS**, See Covers, Truck

**TELEPHONES, MOBILE**, See Radios, Two-Way

## TERMINALS, Wire

AC The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
AMP Inc., Harrisburg, Pa. (Solderless.)
Ark-Les Switch Corp., 51 Water St., Watertown 72, Mass.
Barcy-Nicholson Co., 8100 Joy Rd., Detroit 4, Mich.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Burndy Corp., Omaton Div., Norwalk, Conn.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
Electric Auto-Lite Co., Toledo 1, Ohio.
Electrix Terminals & Connectors Inc., 990 E. 67th St., Cleveland 3, Ohio.
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Inter-Continent Mfg. Co., 117 E. 13th St., Chicago 5, Ill.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Metal Craft Co., 3300 Doris Ave., Detroit 6, Mich.
Monarch Insulated Wire Co., P. O. Box 35, Teaneck, N. J.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.
Ohio Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Packard Electric Div., General Motors Corp., Dana St., Warren, Ohio
Patton-MacGuyer Co., Baker St. & Virginia Ave., Providence 5, R. I.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
Rajah Co., 35 Verona Ave., Newark 4, N. J.
Realflex Products Co., 335 38th St., Brooklyn 32, N. Y.
Richards Mfg. Co., 20 E. Herman St., Philadelphia 44, Pa.
Shakeproof Div. of Illinois Tool Works, St. Charles Rd., Elgin, Ill.
Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, L. I., N. Y.
Stimpson Co., Edwin B., 70 Franklin Ave., Brooklyn, N. Y.
Thompson-Bremer & Co., 228 N. LaSalle St., Chicago 1, Ill.
Triple-A-Specialty Co., 2835 N. Western Ave., Chicago 18, Ill.
Vaco Products Co., 317 E. Ontario St., Chicago 11, Ill. (Solderless.)
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Wade Electric Products Co., 211 N. Jacobs St., Sturgis, Mich.
Walker Bros., River & End Sts., Conshohocken, Pa.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
Zierick Mfg. Corp., Beechwood & Rockdale Aves., New Rochelle, N. Y.

**TESTERS, BATTERY**, See Instruments, Storage Battery Testing

## TESTERS, Bearing Wear

Bennett-Feragen, Inc., 1408 Jerome St., Niles, Mich.
Federal-Mogul Service, Div. of Federal-Mogul-Bower Bearings Inc., 11031 Shoemaker Rd., Detroit 13, Mich.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.

## TESTERS, Brake

(See Gages, Brake Drum; Gages, Brake Shoe)
American Instrument Co., Silver Spring, Md.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bendix Products Div. of Bendix Aviation Corp., 401 Bendix Drive, South Bend, Ind.
Bennett-Feragen, Inc., 1408 Jerome St., Niles, Mich.
Permafuse Corp., 675 Main St., Westbury, N. Y.
Tapley Products, 63 Park Pl., N. Y. 7, N. Y. (Decelerometer.)
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

## TESTERS, Cooling System Leak

AC The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.
Enell Associates Inc., 9701 Clinton Rd., Cleveland 9, Ohio.
James Industries Inc., Skaneateles, N. Y.
Radiator Specialty Co., 1400 W. Independence Blvd., Charlotte 1, N. C.
Stant Mfg. Co., 1620 Columbia St., Connersville, Ind.

## TESTERS, Cylinder Block

K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.
Moguloid Co. of America, 3520 W. Carroll St., Chicago 24, Ill.
P & G Mfg. Co., 305 N.E. Russell St., Portland 12, Ore.

## TESTERS, Diesel Equipment

Allis-Chalmers Mfg. Co., Engine Material Handling Div., 1135 S. 70th St., Milwaukee 1, Wis.
Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa.
Diesel Control Corp., 228 N. Marine Ave., Wilmington, Calif.
Kent-Moore Organization Inc., 1501 S. Jackson St., Jackson, Mich.
Kiene Diesel Accessories, Inc., 10352 Pacific Ave., Franklin Park, Ill.

## TESTERS, Driver

Allgaier, Earl, Arlington, Va.
Keystone View Co., Hamilton & Crandall Sts., Meadville, Pa.
Porto-Clinic Instruments, Inc., 298 Broadway, New York 14, N. Y.

**TESTERS, ELECTRICAL**, See Instruments, Electrical Circuit Testing

**TESTERS, ENGINE**, See Analyzers, Trouble

## TESTERS, Fuel Pump

AC The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Airtex Automotive Div., Airtex Products, Inc., Fairfield, Ill.
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Arsco Mfg. & Sales Corp., 453 Tenth Ave., New York 18, N. Y.
Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa. (Diesel.)
Cornwell Quality Tools Co., Magadore, Ohio.
Hygrade Products Div., Standard Motor Products, Inc., 32-18 Northern Blvd., Long Island City, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
King Electric Equipment Co., 9123 Inman Ave., Cleveland 5, Ohio.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Schauer Mfg. Co., 4500 Alpine Ave., Rossmoyne, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Weidenhoff Corp., Algona, Iowa.

## TESTERS, Gasoline Mileage

Almquist Engrg. Co., Milford, Pa.
Bennett-Feragen, 1408 Jerome St., Niles, Mich.
Electro Products Co., 445 E. 189th St., N. Y. 58, N. Y.
Gauthier, Donat A., 7416 Poe Ave., Detroit 6, Mich.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Snow-Craggs Corp., 5840 S. Oakley Ave., Chicago 36, Ill.
Speedometer Service Co., 151 Forest St., Montclair, N. J. (Gages.)

## TESTERS, Headlight, Optical

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Heyer Industries, Inc., 471 Cortlandt St., Belleville 9, N. J.
Hopkins Mfg. Corp., 428 Peyton Ave., Emporia, Kans.
Manbee Equipment Div., Bear Mfg. Co., P. O. Box 607, Rock Island, Ill.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

**TESTERS, INNER TUBE**, See Tanks, Inner Tube Testing

## TESTERS, Inspection for Cracks in Parts

Magnaflux Corp., 5900 NW Highway, Chicago 31, Ill.

## TESTERS, Radiator

AC The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Allen Electric & Equipment Co., 2102 N. Pitcher St., Kalamazoo 13F, Mich.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.
Enell Associates Inc., 9701 Clinton Rd., Cleveland 9, Ohio.
Fisher & Porter Co., 700 Warminster Rd., Hatboro, Pa.
Inland Mfg. Co., 1108 Jackson St., Omaha 8, Neb.
P & G Mfg. Co., 305 N. E. Russell St., Portland 12, Ore.
Radiator Specialty Co., 1400 W. Independence Blvd., Charlotte 1, N. C.
Stant Mfg. Co., 1620 Columbia St., Connersville, Ind.

## TESTERS, Spark Plug

AC The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Acme Electric Corp., Cuba, N. Y.
B G Corp., 321 Broad Ave., Ridgefield, N. J.
Champion Spark Plug Co., 900 Upton Ave., Toledo, Ohio.
Cropley Instruments, 10 S. River St., Aurora, Ill.
Kal-Equip Co., Box 567, Kalamazoo, Mich.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
King Electric Equipment Co., 9123 Inman Ave., Cleveland 5, Ohio.
Miller Co., L. B., 336 W. Main St., Stamford, Conn.
Rinck-McIlwaine Inc., 16 Hudson St., New York 13, N. Y.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Wudel Mfg. Co., Edmund J., 6082 Ferguson Dr., Los Angeles 22, Calif.

## TESTERS, Transmission

Consolidated Diesel Electric Corp., Ludlow & Canal Sts., Stamford, Conn.

## TESTERS, Valve and Clutch Spring

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio. (Valve.)
Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa.
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif. (For valve and clutch springs.)
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Sturtevant Co., P. A., Addison, Ill.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.

# thermometers to tools

### THERMOMETERS, Recording and Indicating

Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa.
Barber-Colman Co., 1300 Rock St., Rockford, Ill.
Bristol Co., Waterbury 20, Conn.
Dillon Co., W. C., 14620 Keswick St., Van Nuys, Calif.
Electric Auto-Lite Co., Toledo 1, Ohio.
Foxboro Co., Neponset Ave., Foxboro, Mass.
Freas Glass Works, Francis L., 140 E. Ninth Ave., Conshohocken, Pa. (Battery indicating.)
Illinois Testing Laboratories, 420 N. LaSalle St., Chicago, Ill.
Kocour Co., 4800 S. St. Louis Ave., Chicago 32, Ill. (Indicating.)
Lewis Engineering Co., 339 Church St., Naugatuck, Conn.
Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Windrim Aves., Philadelphia 44, Pa.
Powers Regulator Co., 3400 Oaktown St., Skokie, Ill.
Precision Thermometer & Instrument Co., 1465 Brandywine St., Philadelphia 30, Pa. (Indicating.)
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.
United States Gauge Div., of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.
Weston Instruments Div. of Daystrom Inc., 614 Frelinghuysen Ave., Newark 12, N. J.

### THERMOSTATS

Barber-Colman Co., 1300 Rock St., Rockford, Ill.
Bishop & Babcock Mfg. Co., 4901 Hamilton Ave., N. E., Cleveland 14, Ohio.
Bridgeport Thermostat Div., Robertshaw-Fulton Controls Co., 115 Hill St., Milford, Conn.
Dole Valve Co., 6201 Oakton St., Morton Grove, Ill.
Fulton Sylphon Div., Robertshaw-Fulton Controls Co., W. Cumberland Ave., Knoxville 1, Tenn.
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.
Minneapolis-Honeywell Regulator Co., Transportation Div., 2753 Fourth Ave., S., Minneapolis 8, Minn. (Control systems for buses.)
Ranco, Inc., 601 W. 5th Ave., Columbus 1, Ohio.
United Electric Controls Co., 85 School St., Watertown 72, Mass.
Vapor Heating Corp., 80 E. Jackson Blvd., Chicago 4, Ill.

THIRD AXLE UNITS, See Axle Units, Third, for Trucks

### THREADED INSERTS

Groov-Pin Corp., 1125 Hendricks Causeway, Ridgefield, N. J.
Heli-Coil Corp., 591 Shelter Rock Lane, Danbury, Conn.
National Screw & Mfg. Co., 2440 E. 75th St., Cleveland 4, Ohio.
Roylyn, Inc., 620 Paula Ave., Glendale 1, Calif. (Sole distributor Airaterra, 620 Paula Ave., Glendale 1, Calif.)
South Chester Corp., Southco Div., 228 Industrial Highway, Lester, Pa.

THREAD RESTORING TOOLS, See Tools Thread Restoring

### TIE DOWNS, Cargo

Brown Line Corp., 111 Main St., El Segundo, Cal.
General Logistics Division, Aeroquip Corp., 2929 Floyd St., Burbank, Cal.

### TIE-DOWNS, Tarpaulin

Rubberhide Co., Inc., Box 631-C, Trenton, N. J.

TIMING CHAINS, See Chains, Timing

### TIRE, Branding Irons

Everhot Mfg. Co., 57 S. 19th Ave., Maywood, Ill.
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa.
Merkert & Sons, 146-10 Jamaica St., Jamaica, N. Y.
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.
Vulcan Electric Co., 88 Holten St., Danvers, Mass.

TIRE BUFFERS, See Buffers, Tire (Electric)
TIRE CARRIERS, See Carriers, Tire
TIRE CHAINS and EQUIPMENT, See Chains, Tire; also Adjusters, Tire Chains

### TIRES, Pneumatic

Armstrong Rubber Co., 475 Elm St., West Haven 16, Conn.
Armstrong-Norwalk Rubber Corp., 20 Glover Ave., Norwalk, Conn.
Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.
Corduroy Rubber Co., Fuller Ave. & G. T. Tracks, Grand Rapids 1, Mich.
Dayton Rubber Co., 2342 Riverview Ave., Dayton, Ohio.
Denman Rubber Mfg. Co., Warren, Ohio.
Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.
Dunlop Tire & Rubber Corp., Sheridan Dr. & River Rd., Buffalo 5, N. Y.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Fisk Tire Co., Div. U. S. Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.
Goodrich Co., Tire & Equipment Div., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Inland Rubber Corp., 515 Newman St., Mansfield, Ohio
Kelly-Springfield Tire Co., P. O. Box 300, Cumberland, Md.
Laber Tire & Rubber Co. of Calif., 26th & Magnolia Sts., Oakland, Calif.
Lee Rubber & Tire Corp., Conshohocken, Pa.
McCreary Tire & Rubber Co., Box 700, Indiana, Pa.
Mansfield Tire & Rubber Co., 515 Newman St., Mansfield, Ohio.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Mohawk Rubber Co., 1235 Second St., Akron 5, Ohio.
Pennsylvania Tire Co., P. O. Box 377, Mansfield, Ohio.
Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.
Schenuit Rubber Co., Frank G., Railroad & Union Aves., Baltimore 11, Maryland.
Seiberling Rubber Co., Akron, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

### TIRES, Solid

Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Goodrich Tire Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

TIRE GAGES, See Gages, Tire Pressure
TIRE INFLATORS, See Chucks, Air (Tire Inflating); also Meters, Air Tower
TIRE RECAPPING MOLDS, See Molds, Tire Recapping and Retreading
TIRE REGROOVERS, See Regroovers, Tire
TIRE REMOVING TOOLS, See Tools, Tire Removing and Replacing
TIRE REPAIR MATERIALS, See Compounds, Tire Repair
TIRE REPAIR TOOLS, See Tools, Tire
TIRE SPREADERS, See Tools, Tire Spreading

### TIRE TREAD SERVICE

General Tire & Rubber Co., Kraft Div., 1708 Englewood Ave., Akron, Ohio.
Hawkinson Co., Paul E., Winter St., Minneapolis, Minn.
Mohawk Rubber Co., 1235 2nd St., Akron 5, Ohio.
Penetred Corp., Marshfield, Wis. (Steel coil tread.)
Webster Rubber Co., Warren, Ohio.

### TIRES, Used

(Advertiser only)

Washington Rubber Waste Co., 3141 Washington Blvd., Baltimore 30, Md.

TIRE VULCANIZERS, See Vulcanizers, Portable and Vulcanizer, Shop

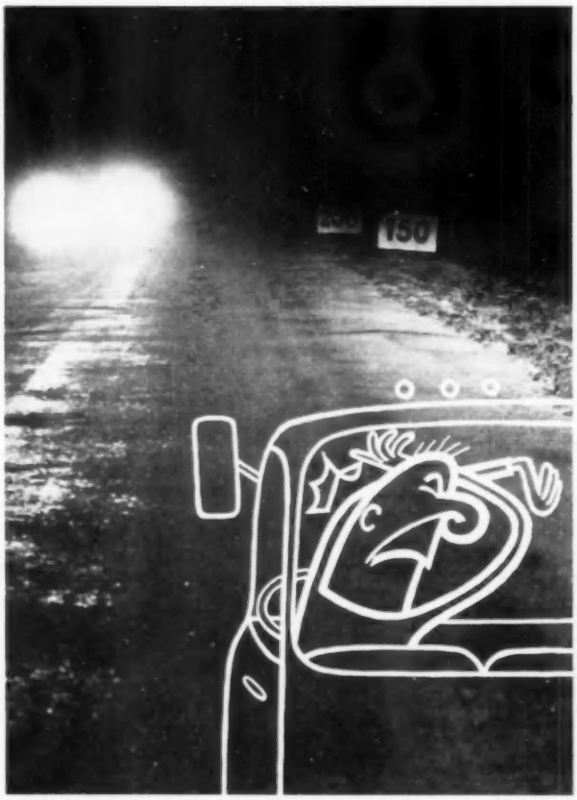
### TOOLS, Battery Service

Accurate Products, Inc., 135 N. Spring St., Indianapolis, Ind.
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo 13, N. Y. (Pliers, terminal tools, etc.)
Bishman Mfg. Co., Osseo, Minn.
Champion DeArment Tool Co., 1306 S. Main St., Meadville, Pa. (Pliers and clippers.)
Christie Electric Corp., 3410 W. 67th St., Los Angeles 43, Calif.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 99, Ill.
Electric Storage Battery Co., Automotive Div., 246 E. 131st St., Cleveland 1, Ohio.
General Scientific Equip. Co., 7516 Limekiln Pike, Philadelphia 50, Pa.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis. (Terminal pullers.)
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kennedy Service Tools Co., 788 Evans Ave., Akron 5, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Murray Corp., E. Joppa Rd., Towson 4, Md.
New Britain Machine Co., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
P & C Tool Co., Box 5926, Milwaukie, Ore.
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif. "Proto." (Terminal pullers.)
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. (Terminal pullers.)
Utica Drop Forge & Tool—Div. of Kelsey-Hayes Co., 2500 Whitesboro St., Utica 4, N. Y. (Pliers.)
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo. (Pliers.)
Wilson, Inc., K. R., Arcade, N. Y.

### TOOLS, Body and Fender Repair, Hand

A-B-C Mfg. Co., 2757 N. Ruth St., Phila. 34, Pa.
Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa.
Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.
Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.
Chicago Tool & Kit Mfg. Co., 230 N. Jefferson St., Chicago 6, Ill. (Hammers.)
Douglas Tool Co., 5251 Pattison Ave., St. Louis 10, Mo. (Body.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Fairmont Tool & Forging Inc., 10611 Quincy Ave., Cleveland 6, Ohio.
Heller Tool Co., Heller Dr., Newcomerstown, Ohio. (Body files and hammers.)
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Keysco Mfg. Co., 1244 E. 12th St., Oakland 6, Calif.
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.
Nicholson File Co., 22 Acorn St., Providence 1, R. I. (Files.)
Nolvex File Co., 10329 Detroit Ave., Cleveland 2, Ohio. (Body files.)
P & C Tool Co., Box 5926, Milwaukie, Ore.
Penn Fibre & Specialty Co., 2024 E. Westmoreland St., Philadelphia 34, Pa.
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. (Hand.)
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.
Red Devil Tools, 2400 Vauxhall Rd., Union, N. J.
Rivette Mfg. Co., 1515 Rothwell Ave., Houston, Tex.
Roberts Toledo Rubber Co., 4143 Monroe St., Toledo 13, Ohio. (Rubber hammers.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Stanley Tools, 111 Elm St., New Britain, Conn.
Steck Line Tools Inc., 1312 Bolander Ave., Dayton 8, Ohio.
Stream Line Tools, Inc., Highway 70, Conover, N. C.

# Now...See in spite of the other guy's lights!




**BRACE YOURSELF!** Here comes another driver that hasn't dimmed his lights. He's 175 feet away. Your vision of your side of the road is "washed out" by his glare. Then after you pass, it takes precious seconds for your eyes to readjust to the reduced light, and you still can't see the road ahead clearly. It's like entering a dark theatre on a sunny day!

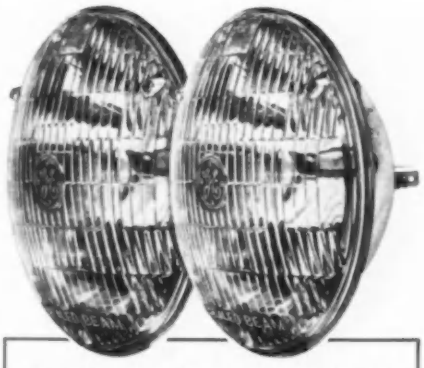
**NOW YOU CAN SEE** in spite of the other guy's lights—better than ever before, because you have new G-E SUBURBAN Headlamps. Their "built-in spotlight" in the lower beam projects more light along the right shoulder, helps keep your eyes on your side of the road. Now you can spot that fallen box at the 200-foot mark—which you *couldn't* see with your old headlamps!

## New G-E SUBURBAN Headlamps have a "built-in spotlight" ... in the low beam!

No other 2-headlamp system ever gave you as much light *in the low beam* as these new General Electric SUBURBAN Headlamps. And you *need* more light in the low beam when meeting oncoming cars—even if the other driver dims his lights and has them aimed properly.

The new G-E "built-in spotlight" gives you a stronger low beam filament *optically centered* in the reflector—puts more light where you need it to make passing easier and safer. Helps you recover your vision more quickly when the other car has passed.

Order new G-E SUBURBAN Headlamps for your fleet today—and give your drivers greater safety at night! General Electric Company, Miniature Lamp Dept., Nela Park, Cleveland 12, Ohio.



Special low-beam filament shield lets you see better in fog, rain or snow. Upper beam reaches far and wide for safer driving on open road.

*Progress Is Our Most Important Product*

**GENERAL ELECTRIC**

### TOOLS—continued

Swiss Laboratory, 1533 Hamilton Ave., Cleveland 14, Ohio.
Vulcan Mfg. Co., 400 W. Third St., Winona, Minn.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Wilson, Inc., K. R., Arcade, N. Y.

### TOOLS, Body and Fender Repair, Portable Electric

Red Devil Tools, Coit St., Irvington 11, N. J.

### TOOLS, Body and Fender Repair, Portable Hydraulic

Bee-Line Co., P. O. Box 569, Davenport, Iowa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis.
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.

### TOOLS, Body and Fender Repair, Portable Pneumatic

Brown Tool Mfg. Co., 9422 Trenton Ave., St. Louis 14, Mo.
Cornwell Quality Tools Co., Mogadore, Ohio.
Hauschild Mfg. Co., F. J., 540 Main St., Oneonta, N. Y.
Hopkins Mfg. Co., 428 Peyton Ave., Emporia, Kans.
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis. (Hammers.)
Salisbury Corp., 1161 E. Florence Ave., Los Angeles 1, Calif. (Hammers.)
Thor Power Tool Co., Prudential Bldg., Chicago 1, Ill. (Hammers.)
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.

### TOOLS, Brake Cylinder Cleaning and Polishing

Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

### TOOLS, Brake Spring Removing & Replacing

Barrett Equipment Co., 21st & Cass, St. Louis 6, Mo.
Cornwell Quality Tools Co., Mogadore, Ohio.
Krome Co., 39 Mulberry St., Reading, Pa. (Compressors.)
Nasa Tool Mfg. Corp., 3427 Locust Corner Rd., Amelia, Ohio
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Quality Tools Corp., Railroad St., New Wilmington, Pa. (Pliers.)
Snap-On Tools Corp., 8046 28th Ave., Kenosa, Wis.
Utica Drop Forge & Tool—Div. of Kelsey-Hayes Co., 2500 Whitesboro St., Utica, N. Y. (Pliers.)
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.

### TOOLS, Brake Bond Testing

Permafuse Corp., 675 Main St., Westbury, N. Y.

### TOOLS, Clutch Alignment

(See also Machines, Clutch Rebuilding)

Accurate Re-Nu Clutch Div. of MarPro Inc., 168 N. Michigan Ave., Chicago 1, Ill.
Cal-Van Machine Products Inc., 809 S. Water St., Jackson, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Kaywood Products Corp., 217 Clinton St., Jackson, Mich.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Miller Co., L. B., 336 W. Main St., Stamford, Conn.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Rovtar Tool Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

### TOOLS, Contact Point Reconditioning

Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y.
Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.
Heller Bros. Co., 865 Mt. Prospect Ave., Newark, N. J.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Lanagan & Hoke, Inc., Easton Rd., Warrington, Pa.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Miller Co., L. B., 336 W. Main St., Stamford, Conn.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Nolvex File Co., 10329 Detroit Ave., Cleveland 2, Ohio.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Rinck-McIlvaine, Inc., 18 Hudson St., New York 13, N. Y. (Rimac.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa.
Wilson, Inc., K. R., Arcade, N. Y.

### TOOLS, Machines, Cylinder Reboring, Portable

(See also Hones, Cylinder; also Deglazers, Cylinder)

Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa.
Evans Reamer & Machine Co., New Lexington, Ohio.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Rottler Boring Car Co., 1727 First Ave., S., Seattle 4, Wash.
St. Louis Tool Co., 6100 Prescott St., St. Louis 15, Mo.
Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Tex.
Van Norman Co., 2640 Main St., Springfield 7, Mass.
Wilson, Inc., K. R., Arcade, N. Y.

### TOOLS, Hand

Agner Simplex Co., 106 Pine St., Burlington, Wis.
Apco Mossberg Co., Lamb St., Attleboro, Mass.
Apex Machine & Tool Co., 1025 Patterson Blvd., Dayton, Ohio.
Armstrong Bros. Tools Co., 5200 Armstrong Blvd., Chicago 30, Ill.
Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 8, Conn.
Atmars Tool Co., 2411 Chestnut St., Oakland 7, Cal.
BMC Mfg. Co., 5 Griswold St., Binghamton, N. Y.
Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa.
Bath & Co., John, 18 Grafton St., Worcester, Mass.
Bay State Tap & Die Co., Chauncey St., Mansfield, Mass.
Beall Tool Div., Herbrand & Co., East Alton, Ill. (Ratchet.)
Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo 13, N. Y.
Besley & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill.
Billings & Spencer Co., 1 Laurel St., Hartford 1, Conn.
Blackhawk Mfg. Co., 5325 W. Rogus St., Milwaukee 1, Wis.
Boker & Co., 101 Duane St., New York, N. Y.
Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.
Bremil Mfg. Co., 1700 Pittsburgh Ave., Erie, Pa.
Bridgeport Hardware Mfg. Corp., Scofield Ave., Bridgeport, Conn.
Brubaker & Bros., Co., W. L., Millersburg, Pa.
Buckeye Reliner Producing Co., 637 N. Jackson St., Lima, Ohio. (Rubber mallets.)
Callahan Mfg. Co., 90 Halton St., Danver, Mass.
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Miss.
Card Mfg. Co., S. W. Div., Union Drill Co., Rumford Ave., Mansfield, Mass.
Chicago Tool & Kit Mfg. Co., 667 W. Randolph St., Chicago 6, Ill.
Cincinnati Tool Co., 1967 Waverly Ave., Cincinnati 12, Ohio.
Cleveland Steel Tool Co., 660 W. 82nd St., Cleveland, Ohio.
Cornwell Quality Tool Co., Mogadore, Ohio.
Conant & Donelson Co., Conway, Mass.
Continental Rubber Works, 1902 Liberty St., Erie, Pa.
Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. (Wheel bearing adjusting nut.)
Danielson Mfg. Co., Danielson, Conn.
Delaware Tool Steel Corp., 3300 Market St., Wilmington 99, Del.
Division Lead Co., 836 W. Kinzie St., Chicago, Ill. (Lead and babbit.)
Dixon, Inc., William, 32 E. Kinney St., Newark, N. J.
Duro Metal Products Co., 2649 N. Kildare St., Chicago 39, Ill. (Duro Chrome.)
Fairmount Tool & Forging Co., 10611 Quincy St., Cleveland 6, Ohio.
Forsberg Mfg. Co., 125 Seaview Ave., Bridgeport, Conn.
G. M. Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y. (Lead, babbitt, copper, rubber, etc.)
Geometric Tool Co., Div. of Greenfield Tap & Die Corp., Blake & Valley Sts., New Haven 15, Conn. (Solid adjustable.)
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. (Rubber mallet.)
Goodyear Tire & Rubber Co., E. Market St., Akron, Ohio.
Greene, Tweed & Co., North Wales, Pa. (Plastic.)
Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass.
Hanson-Whitney Machine Co., 169 Bartholomew Ave., Hartford 2, Conn.
Heller Bros. Co., 865 Mt. Prospect Ave., Newark 4, N. J.
Hendry Co., C. J., 27 Main St., San Francisco 5, Calif.
Henry & Allen, Inc., 2 Wadsworth St., Auburn, N. Y.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Jari Products, Inc., 2938 Pillsbury Ave., Minneapolis, Minn. (Impact for buses, trucks, and trailer wheels.)
Jergans Tool Specialty Co., 712 E. 163rd St., Cleveland 10, Ohio. (For White trucks only.)
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kaalot Mfg. Co., 3927 N. Kedzie Ave., Chicago 18, Ill. (Buckskin fabric.)
Kennedy Service Tools Inc., 788 Evans Ave., Akron 5, Ohio. (Rubber, fibre, plastic.)
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lambert Products, Inc., 513 Hunter Ave., Dayton, Ohio. (Wheel.)
Landis Machine Co., Fifth & Church Sts., Waynesboro, Pa. (Solid Adjustable.)
Larson Tool & Stamping Co., Olive St., Attleboro, Mass.
Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. (Rubber mallets.)
Lufkin Rule Co., Hess Ave., Saginaw, Mich. (Center.)
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. (Rawhide.)
Matticks Mfg. Co., 4156 E. Pacific Way, Los Angeles 23, Calif. (Rubber.)
Mayhew Steel Products, Inc., Shelburne Falls, Mass.
Mechanic's Tool & Forge Co., Howard St., Sabina 1, Ohio.
Metal Engineering Co., 134 N. La Salle St., Chicago 2, Ill.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Millers Falls Co., Greenfield, Mass. (Brass.)

Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.
Murchey Machine & Tool Co., 12800 Puritan St., Detroit, Mich. (Solid and Adjustable.)
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
New England Pressed Steel Co., Washington Ave., Natick, Mass.
New Plastic Corp., 1017 N. Sycamore Ave., Los Angeles, Calif.
Niagara Machine & Tool Works, 683 Northland Ave., Buffalo 11, N. Y.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
P & C Tool Co., Box G, Milwaukie, Ore.
Park Metalware Co., Thorne Ave. & B. R. & P. Tracks, Orchard Park, N. Y.
Peck, Stowe & Wilcox Co., 217 Center St., Southington, Conn.
Peterson Mfg. Co., De Witt, Neb. (Toggle type.)
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.
Polaris Products, Inc., 1006 S. Barclay St., Milwaukee, Wis.
Pratt & Whitney, Div. Niles-Bennett-Pond Co., Charter Oaks Blvd., West Hartford, Conn.
Quality Tool Corp., New Wilmington, Pa.
Reiff & Nester Co., Lykens, Pa.
Reltool Corp., 712 W. Michigan St., Milwaukee 3, Wis.
Rhode Island Tool Co., 148 W. River St., Providence 1, R. I.
Richards Co., J. A., 903 N. Pitcher St., Kalamazoo 13F, Mich. (Rubber products.)
Roberts Toledo Rubber Co., Prospect & MC RR., Toledo 6, Ohio.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Sherman-Klove Co., 3535 W. 47th St., Chicago 32, Ill.
Smith & Sons, Inc., Seymour, Oakville, Conn. (Sole distributors, John H. Graham & Co., 105 Duane St., New York, N. Y.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Standard Tool Co., 6900 Central Ave., Cleveland 4, Ohio.
Stanley Tools, 111 Elm St., New Britain, Conn.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
Stevens-Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Stortz & Son, John, 210 Vine St., Philadelphia 6, Pa.
Sweeney Mfg. Co., B. K., 1601 23rd St., Denver, Colo.
Tri-Grip Co., 2053 Twelfth St., Cuyahoga Falls, Ohio.
Trimont Mfg. Co., Div. of Aetna Industrial Corp., 55 Armory St. (Roxbury), Boston, Mass.
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Tuck Mfg. Co., 74 Ames St., Brockton, Mass.
Union Tool Co., 48 E. River St., Orange, Mass.
Union Twist Drill Co., Monroe St., Athol, Mass.
Union Twist Drill Co., Butterfield Div., Derby Line, Vt.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York, N. Y.
Ushco Mfg. Co., 135 Tonawanda St., Buffalo 7, N. Y.
Utica Drop Forge & Tool Corp., 2500 Whitesboro Rd., Utica 4, N. Y.
Vaco Products Co., 317 E. Ontario St., Chicago 11, Ill. (Plastic.)
Vermont Tap & Die Corp., Main & Grove Sts., Lydonville, Vt.
Vlchek Tool Co., 3001 E. 87th St., Cleveland, Ohio.
Walworth Co., 60 E. 42nd St., New York 17, N. Y.
Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.
Whitaker Mfg. Co., 409 S. Greene St., Chicago, Ill.
Whitman & Barnes, Div. of United Drill & Tool Corp., Plymouth, Mich. (Interchangeable.)
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Wiss & Son Co., J., 33 Littleton Ave., Newark, N. J.
Wood & Spencer Co., 1930 E. 61st St., Cleveland 3, Ohio.
Wright Tool & Forge Co., 42 E. State St., Bakerton, Ohio.
Zoerman-Clark Mfg. Co., Jackson, Mich.

## TOOLS, Ignition

Billings & Spencer Co., 1 Laurel St., Hartford 1, Conn.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kal-Equip Co., Box 567, Kalamazoo, Mich.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Metal Engrg. Co., 134 N. LaSalle St., Chicago, Ill.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
P & C Tool Co., Box 5926, Milwaukie, Ore.
Proto Tools, 2009 Santa Fe Ave., Los Angeles, Calif.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.

## TOOLS, Injector Service

Bacharach Industrial Instrument Co., 7000 Bennett St., Pittsburgh 8, Pa.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.

## TOOLS, Piston Pin Removing and Installing

Clark-Feather Mfg. Co., 116 W. Railroad Ave., Ft. Morgan, Colo.
Cornwell Quality Tools Co., Mogadore, Ohio.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Master Signal Co., 1005 Sutton St., Howell, Mich.
Miller Co., L. B., 336 W. Main St., Stamford, Conn.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

## TOOLS, Piston Ring Compressing

Aircraft Specialties, Inc., Howard & Higley St., Lapeer, Mich.
Burd Piston Ring Co., 1401 23rd Ave., Rockford, Ill.
Cal-Van Machine Products Inc., 809 S. Water St., Jackson, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Kastar Inc., 200 Lincoln Ave., N. Y. 54, N. Y.
Kennedy Service Tools Co., 788 Evans Ave., Akron 5, Ohio.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Master Signal Co., 1005 Sutton St., Howell, Mich.
Miller Co., L. B., 336 W. Main St., Stamford, Conn.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
P & C Tool Co., Box 5926, Milwaukie, Ore.
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Stromgren Co., Charles D., 935 W. 12th St., Los Angeles 15, Calif.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

## TOOLS, Piston Ring Groove Cleaning

Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich.
All-Power Mfg. Co., 400 Roosevelt Ave., Montebello, Calif.
Burd Piston Ring Co., 1401 23rd Ave., Rockford, Ill.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Groove-Rite Tool Co., 40300 Grand River Ave., Novi, Mich.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Master Signal Co., 1005 Sutton St., Howell, Mich.
Miller Co., L. B., 336 W. Main St., Stamford, Conn.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Stromgren Co., Charles D. 935 W. 12th St., Los Angeles 15, Calif.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wood Co., Frank N. 344 W. Main St., Waukesha, Wis. (Regrooving & cleaning lathe.)
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

## TOOLS, Radiator

(Advertisers Only)

Lake Auto Radiator Mfg. Co., 5200 W. 130th St., Cleveland 30, Ohio.

## TOOL REPAIR SERVICE

(Advertiser only)

Black & Decker Mfg. Co., Towson 4, Md.

## TOOLS, Spring Spreading

Mesco Products, Crete, Nebr.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Wilson, Inc., K. R., Arcade, N. Y.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

## TOOLS, Thread Restoring

Armstrong Mfg. Co., 225 Lafayette St., New York, N. Y.
Arsco Mfg. & Sales Co., 451 Tenth St., New York 18, N. Y.
Buckingham Mfg. Co., Inc., 7 Travis St., Binghamton, N. Y.
C. & G. Wheel Puller Co., Scio, N. Y.
Cornwell Quality Tools Co., Mogadore, Ohio. (Axle.)
Excello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y. (Valve stem.)
Grayson Tool Co., 1412 W. 2nd St., Hastings, Nebr. (Axle.)
Heli-Coil Corp., 591 Shelter Rock Lane, Danbury, Conn.
Hunt Mfg. Co., Geo. L., 106 Commercial St., Boscobel, Wis.

## TOOLS—continued

Jaw Mfg. Co., 39 Mulberry St., Reading, Pa. (Files, dies and tops.)
Kennedy Service Tools Co., 788 Evans Ave., Akron 5, Ohio. (Axle.)
Kent-Moore Organization, Inc., 1501 S. Jackson, Mich. (axle.)
Keystone Reamer & Tool Co., Millersburg, Pa.
Miller Co., L. B., 336 W. Main St., Stamford, Conn. (Axle.)
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. (Axle.)
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Reiff & Nestor Co., Lykens, Pa.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. (Axle.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo. (Axle.)
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich. (Axle.)

## TOOLS, Tire

A. B. C. Mfg. Co., 340 N. Front St., Philadelphia 6, Pa.
Apco Mossberg Co., 187 Lamb St., Attleboro, Mass.
Automotive Equipment Mfg. Co., 11000 S. Alameda St., Lynwood, Calif. (Also air operated bead breakers.)
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif.
Big Four Industries Inc., 5938 Carthage Court, Cincinnati, Ohio.
Bishman Mfg. Co., Route 2, Osseo, Minn.
Bos Tool Co., Delaware & Main Sts., Penns Grove, N. J. (Hydraulic tire demounting; sole distributors Jack P. Hennessy Sales Co., 12 Depot Square, Englewood, N. J.)
Branick Mfg. Co., Inc., 2600 Third Ave., Fargo, N. D. (Removers.)
Bridgeport Hardware Mfg. Corp., Scofield Ave., Bridgeport, Conn.
Cam Tool Co., 1038 Larkin St., San Francisco, Calif. (Tire changes, also bead breakers; tire lifters.)
Chicago Pneumatic Tool Co., 6 E. 44th St., New York 17, N. Y. (air powered bead breakers.)
Coats Co., 3001 5th Ave. S., Fort Dodge, Iowa. (Sole distributors Jack P. Hennessy Sales Co., 12 Depot Sq., Englewood, N. J.)
Cornwell Quality Tools Co., Mogadore, Ohio.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio. (Hydraulic.)
Greb Co., 181 Canton St., Stoughton, Mass.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y. (Pneumatic.)
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (Probing.)
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa. (Tire rasps.)
Ken Tool Mfg. Co., 768 E. North St., Akron 5, Ohio.
Kennedy Service Tools Co., 788 Evans Ave., Akron 5, Ohio.
Kirapel Industries, Inc., Livingston, N. J.
Lectrolite Corp., Hickory St., Defiance, Ohio.
May Bros. Mfg. Co., 1211 W. Washtenaw St., Lansing, Mich. (Air operated.)
Mesco Products, Crete, Nebr.
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.
P & C Tool Co., Box 5926, Milwaukie, Ore.
Quality Tools Corp., Railroad St., New Wilmington, Pa.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Salsbury Corp., 1161 E. Florence Ave., Los Angeles 1, Calif.
Schrader's Son, A., Div. of Scovill Mfg. Co., 470 Vanderbilt Ave., Brooklyn 38, N. Y.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Speedmaster, Ltd., 3814 Piedmont Ave., Oakland 11, Calif. (Bead breakers; also tubeless tire mounter.)
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.
Three Star Sales Corp., 12 Depot Square, Englewood, N. J.
Vichek Tool Co., 3001 E. 87st St., Cleveland 4, Ohio.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Western States Mfg. Co., 811 Main St., Sioux City, Mo.

## TOOLS, Tire Chain Attaching

American Chain Div., American Chain & Cable Co., 454 E. Princess St., York, Pa.
Hodell Chain Co., Div. of National Screw & Mfg. Co., 3924 Cooper Ave., Cleveland 5, Ohio.

## TOOLS, Tire Chain Repair

American Chain Div. of American Chain & Cable Co., 454 E. Princess St., York, Pa.
Columbus-McKinnon Chain Corp., Tonawanda, N. Y.
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Manley Div., Douglas Motors Inc., 1234 N. 62nd St., Milwaukee, Wis.
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass.
St. Pierre Chain Corp., Frank St., Worcester, Mass.

## TOOLS, Tire Removing and Replacing

Big Four Industries, Inc., 5938 Carthage Ave., Cincinnati 12, Ohio.
Bishman Mfg. Co., Osseo, Minn.
Branick Mfg. Co., Inc., 2600 Third Ave. N., Fargo, N. D.
Chicago Pneumatic Tool Co., 8 East 44th St., New York 17, N. Y.
Coats Co., 3001 Fifth Ave. S., Fort Dodge, Iowa. (Trucks; sole distributors J. P. Hennessy Sales Co., 12 Depot Square, Englewood, N. J.)
Coats Loaders & Stackers, Inc., 3001 Fifth Ave., S., Fort Dodge, Iowa.
Kehawke Mfg. Co., 718 Ellis St., Muncie, Ind.
Ken-Tool Mfg. Co., 768 E. North St., Akron 5, Ohio.
Kerkling-Martin, Inc., San Fernando, Calif.
Lee Engineering Co., 505 Central Ave., Pawtucket, R. I. (Hand or Hydraulically operated.)
Salsbury Corp., Tiremaster Div., 1161 E. Florence Ave., Los Angeles 1, Calif.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

## TOOLS, Tire Spreading

Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bishman Mfg. Co., Osseo, Minn.
Bowes "Seal Fast" Corp., 5902 E. 34th St., Indianapolis 18, Ind.
Branick Mfg. Co., Inc., 2600 Third Ave. N., Fargo, N. D.
Coats Co., 3001 Fifth Ave. S., Fort Dodge, Iowa. (Truck; sole distributor J. P. Hennessy Sales Co., 12 Depot Square, Englewood, N. J.)
Cornwell Quality Tools Co., Mogadore, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa.
Kehawke Mfg. Co., 718 Ellis St., Muncie, Ind. (Pneumatic.)
Kennedy Service Tools Co., 788 Evans Ave., Akron 5, Ohio. (Hand.)
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Lummis Mfg. Co., 2242 E. Foothill Blvd., Pasadena 8, Calif.
Manley Div., Douglas Motors Inc., 1234 N. 62nd St., Milwaukee, Wis.
May Bros. Mfg. Co., 1211 W. Washtenaw St., Lansing, Mich. (Air operated.)
Mesco Products, Crete, Neb.
Miller Mfg. Corp., C. E., 1400 Meridian St., Anderson, Ind.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
P & C Tool Co., Box 5926, Milwaukie, Ore.
Power Pak Products, Inc., 43 Pearl St., Buffalo 2, N. Y. (Pneumatic.)

## TOOLS, Tire Valve Rethreading

Acme Air Appliance Co., 205 Newman St., Hackensack, N. J.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
G. M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Kennedy Service Tools Co., 788 Evans Ave., Akron 5, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron 5, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Planet Metal Products Corp., 964 Dean St., Brooklyn 38, N. Y.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Schrader's Son Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.

## TOOLS, Tube Cutting & Flaring

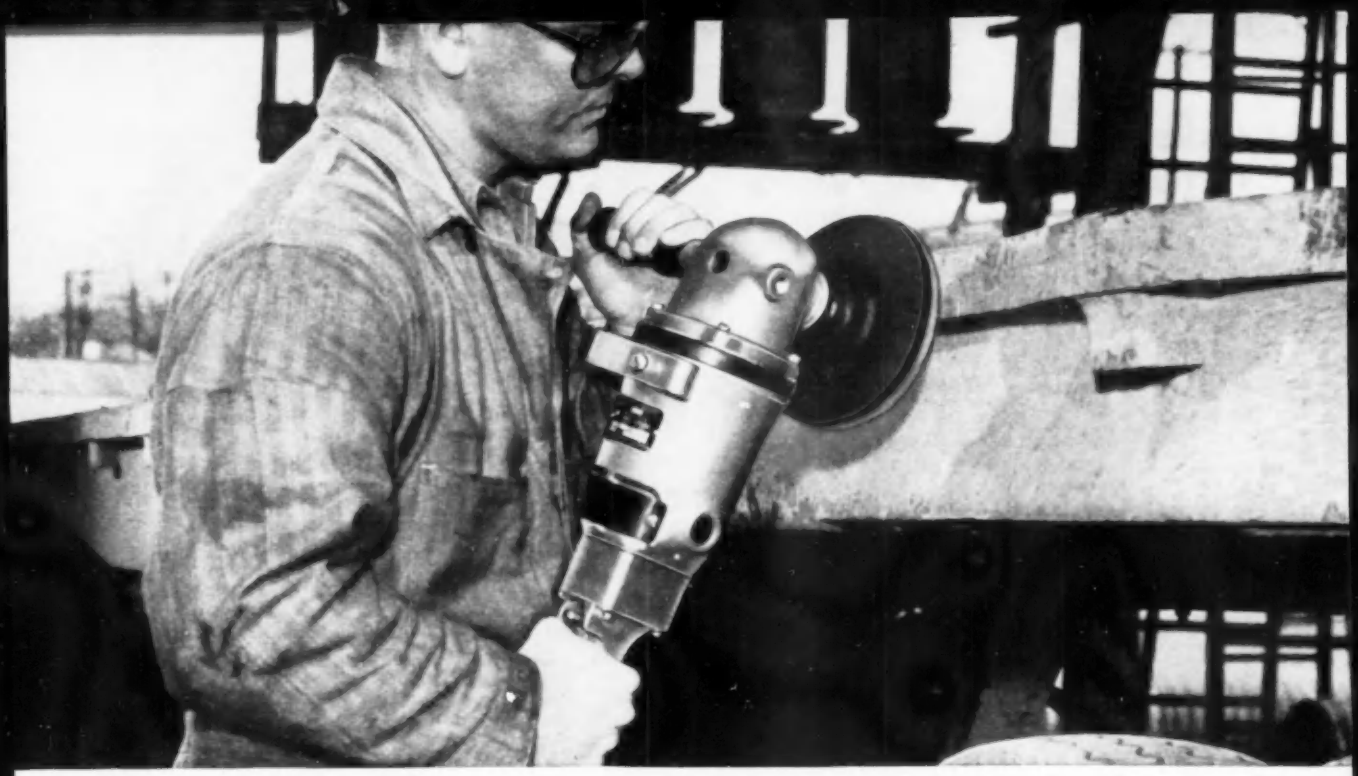
Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa.
Armstrong Bros. Tool Co., 5200 W. Armstrong Ave., Chicago 30, Ill.
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.
Exelio Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
G. M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, N. Y.
Hunt Mfg. Co., Geo L., 106 Commercial St., Boscobel, Wis.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill.
J & J Machine Co., 15420 St. Clair Ave., Cleveland 10, Ohio. (Sole distributors, Beal Bros., Inc., Box 86, Cleveland, Ohio.)
Kent-Moore Organization, Inc. 1501 S. Jackson St., Jackson, Mich.
Leader Screw & Mfg. Co., 3805 E. 91st St., Cleveland 5, Ohio.
Logansport Machine Co., Center Ave., Logansport, Ind.
Miller Co., L. B., 336 State St., Stamford, Conn.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Parker-Hannifin Corp., Parker Fittings & Hose Div., 17325 Euclid Ave., Cleveland 12, Ohio.
Penn Brass & Copper Co., 3837 W. 20th St., Erie, Pa.
Preferred Electric & Wire Co., Bush Terminal Bldg. 28, Brooklyn 32, N. Y.
Quality Tools Corp., Railroad St., New Wilmington, Pa.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Fort Wayne, Ind.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

## TOOLS, Valve Adjusting

P & G Mfg. Co., 305 N.E. Russell St., Portland 12, Ore.

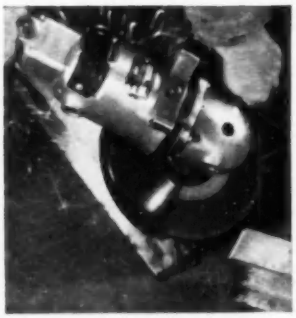
## TOOLS, Valve Grinding or Lapping, (Hand)

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Carston Mfg. Co., 46 N. 2nd St., Mt. Vernon, N. Y.
Central Auto Ignition Co., 2230 S. Wood St., Chicago, Ill.
Cornwell Quality Tools Co., Mogadore, Ohio.
Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif. (Air-driven.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
G. M. Mfg. Co., Inc., 13-08 43rd Ave., Long Island City, N. Y. (Valve grinding.)
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (Vacuum.)



# Cut down-time...get 60% faster material removal!

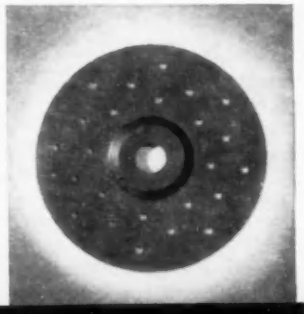
EXCLUSIVE POWER OUTPUT! Specially-built B&D universal motor guarantees continuous power, 90% more than previous models.



EXCLUSIVE MOTOR PROTECTION! New Thermaleze wiring (for motor winding) minimizes problem of overloading, protects motor from overheating, stalling.

EXCLUSIVE LONG-LIFE BRUSHES! New "twin-contact" brush design improves overall tool operation. Increases brush life by at least 50%.

EXCLUSIVE KOOL-FLEX PAD! Perforated to make sanding discs run cooler. Less chance of burning material. Gives tool better balance.



## Improved Black & Decker 7" Sander-Grinder is POWER-BUILT to work harder, longer, faster!

Shop tests show improved B&D 7" Heavy-Duty Sander-Grinder maintains greater speed under maximum load for 60% faster material removal. B&D Sander-Grinder runs cooler, allowing longer continuous operation. Speeds up body sanding, grinding, cutting, brushing, equally well with proper attachments. Smooths welds, removes rivets, cuts off studs fast.

Perfect overall balance and light weight assure less operator fatigue. Blower directs hot exhaust air away from operator. Comes complete with regular backing pad and Kool-flex pads. Call your distributor today for a free demonstration. Or write for free catalog to: THE BLACK & DECKER MFG. CO., Dept. 5411, Towson 4, Md. (In Canada: Brockville, Ontario.)

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DRILLS VACUUM CLEANERS VALVE REFACERS POLISHERS

# tools to trailers

### TOOLS—continued

Kennedy Service Tools Co., 788 Evans Ave., Akron 5, Ohio.
**Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.**
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
**New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.**
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Lapping.)
Spraker Mfg. Co., 1411 E. 20th St., Indianapolis 7, Ind.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

### TOOLS, Valve Guide Cleaning

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Cornwell Quality Tools Co., Mogadore, Ohio.
Kennedy Service Tools Co., 788 Evans Ave., Akron 5, Ohio.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.
Lisle Corp., 809 E. Main St., Clarinda, Iowa
Miller Co., L. B., 336 W. Main St., Stamford, Conn.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
P & C Tool Co., Box 5926, Milwaukie, Ore.
Pittsburgh Plate Glass Co. (Brush Div.), 3221 Frederick Ave., Baltimore 29, Md. (Brushes, for hand use or with portable drills.)
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Scully Steel Products Co., 1319 Wabansia Ave., Chicago, Ill. (Hand.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Thor Power Tool Co., Prudential Bldg., Chicago 1, Ill.
United States Electrical Tool Co., 3620 Llewelyn St., Cincinnati 23, Ohio. (For use with electric drills.)
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.

### TOOLS, Valve Guide Installing and Removing

Bishman Mfg. Co., Osseo, Minn.
Cornwell Quality Tools Co., Mogadore, Ohio.
Hub City Iron Co., 218 1st Ave. S.W., Aberdeen, S. Dak.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
**Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.**
Lisle Corp., 809 E. Main St., Clarinda, Iowa. (Removing.)
Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Versnick Mfg. Co., Madisonville, Ky.
Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill.

### TOOLS, Valve Guide, Knurling

Cedar Rapids Engrg. Co., 902 17th St., N.E., Cedar Rapids, Iowa.

### TOOLS, Valve Lifting and Spring Compressing

Arsco Mfgr. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Associated Producers, Inc., 1603 Fisher Bldg., Detroit 2, Mich.
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Clark-Feather Mfg. Co., 116 W. Railroad Ave., Fort Morgan, Colo.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.
Houser Engrg. & Mfg. Co., 200 E. Spring St., Bluffton, Ind.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kennedy Service Tools Co., 788 Evans Ave., Akron 5, Ohio.
**Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.**
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.
Quality Tools Corp., Railroad St., New Wilmington, Pa. (Valve lifting.)
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wilson, Inc., K. R., Arcade, N. Y.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

### TOOLS, Valve Seat Installing, Removal

Bishman Mfg. Co., Osseo, Minn.
Cedar Rapids Engrg. Co., 902 17th St. NE., Cedar Rapids 1, Iowa.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.
Speaker Mfg. Co., 1440 E. 19th St., Indianapolis, Ind.

### TOOLS, Valve Seat Refinishing

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.
Beard Tool Co., L. O. Andrew & Mill Sts., Lancaster, Pa.
Cedar Rapids Engrg. Co., 902 17th St. NE., Cedar Rapids 1, Iowa.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.
Rottler Boring Bar Co., 513 N. 36th St., Seattle, Wash.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Wilson, Inc., K. R., Arcade, N. Y.

### TOOLS, Wire Stripping

Burndy Corp., Omaton Div., Norwalk, Conn.
Crescent Co., 20 Central Ave., Pawtucket, R. I.
General Cement Mfg. Co., 919 Taylor Ave., Rockford, Ill. (Sole distributors Speedix Mfg. Co., 919 Taylor Ave., Rockford, Ill.)
Holub Industries, Inc., 413 De Kalb Ave., Sycamore, Ill.
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Martindale Electric Co., 1340 Third Ave., Cleveland 7, Ohio.

### TORCHES, Hand

Bernz Co., Inc., Otto, 280 Lyell Ave., Rochester, N. Y.
Precision Engineering & Mfg. Co., Saginaw, Mich.
Pressure Products Corp., 140 N. Dearborn St., Chicago 2, Ill.

**TORQUE WRENCHES, See Wrenches, Torque**

### TOWERS, Repair or Service

**(For use in overhead repairs)**

Crown Steel Products Co., 1330 N. Main St., Orrville, Ohio. (Ladders.)
Gordon Metal Products Co., 115 S. Michigan St., Plymouth, Ind. (Ladders.)
Holan Corp., J. H., 4100 W. 150th St., Cleveland 35, Ohio.
McCabe-Powers Body Co., 5900 N. Broadway, St. Louis 15, Mo. (Aerial beams.)
Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y.
Transport Products Co., 3815 Clark St., Cleveland 9, Ohio. (Ladders.)
Utility Tool & Body Co., 151 E. 16th St., Clintonville, Wis.

**TOWING EQUIPMENT. See Hooks, Towing; also Bars, Towing; also Cranes, Service Truck**

### TRAILERS, Automobile Transport

Fox Body Co., 1109 Galena St., Janesville, Wis.
Fruehauf Trailer Co., 10904 Harper Ave., Detroit 32, Mich.
Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit 12, Mich.
Traffic Transport Engr., Inc., 14301 Schaden Ave., Dearborn, Mich.
Troyler Corp., 1445 Meylert Ave., Scranton, Pa.
Whitehead & Kales, 58 Haltiner St., River Rouge 18, Mich.

### TRAILERS, Commercial

ALF Body Corp., 4400 Clayton Blvd., St. Louis 10, Mo.
Ace Trailer & Equipment Co., Div. Reliable Automotive Co., H & San Joaquin Sts., Fresno, Cal. (6-wheel, 4-wheel and semi.)
Adams Engrg. Co., 31711 Salon Rd., Salon, Ohio. (Pole and cable reel.)
Aerobilt Bodies, Inc., Athens, N. Y. (Aluminum.)
Aluminum Body Corp., 1600 Washington Blvd., Montebello, Cal.
American Body & Trailer, Inc., P. O. Box 1150 Oklahoma City 1, Okla. (Semi.)
American Machine Works, 1027 W. Broadway, Spokane, Wash. (Logging.)
American Trailer & Mfg. Co., 12222 S. Woodruff Ave., Downey, Calif.
Andrews Industries, Inc., 7901 Alabama Ave., St. Louis 11, Mo. (Refrigerated, etc.)
Anthony Co., Streator, Ill. (Dump and frameless dump.)
Athey Products Corp., 5631 W. 65th St., Chicago 38, Ill. (Earth moving and highway construction.)
Baker Equipment Engineering Co., Summit & Norfolk Sts., Richmond 11, Va. (Lumber, log, pole and semi.)
Baker Trailer & Body Co., 700 N. 20th St., St. Louis 3, Mo.
Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.
Beall Pipe & Tank Corp., 12005 N. Burgard St., Portland 3, Ore. (Aluminum and steel logging machinery.)
Bedell Trailer Co., 1506 S. Flores St., San Antonio 4, Tex.
Birmingham Mfg. Co., 1101 S. 2nd Ave., (P. O. Box 1351), Birmingham, Ala. (Low bed machinery.)
Black Diamond Trailer Co., Euclid Ave., Bristol, Va.
Brown Truck & Trailer Mfg. Co., P. O. Box 1281, Morris Field, Charlotte 1, N. C. (Custom built.)
Brown Trailer Div., Clark Equipment Co., Box 275, Elgin, Ill.
Brunswick Body Wks., U. S. Route 1, New Brunswick, N. J. (Platform.)
C & C Trailer & Body Co., 8855 San Leandro St., Oakland 21, Calif.
Carlisle Machine Works, Box 8, Longview, Tex. (Dump, stock and pick-up.)
Cemco Industries Inc., Galion, Ohio. (Bulk cement.)
Clark Co., B. M., Union, Maine. (Van, rack and low bed custom built.)
Clement-Braswell Inc., 507 First National Bank Bldg., Shreveport, La. (Dump.)
Converto Mfg. Co., Third & Green Sts., Cambridge City, Ind.
Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 65, Calif.
Copco Trailers Div., of Copco Steel & Engrg. Co., 23500 Sherwood Rd., Detroit 34, Mich. (Steel and aluminum van, flat refrigerated and dump.)
Cox & Sons, Leon O., Grifton, N. C. (Farm and utility.)
Dart Truck Co., 2623 Oak St., Kansas City 8, Mo. (Semi, 4-wheel, pole & machinery.)
Delphi Body Works, 311 S. Washington St., Delphi, Ind.
Detroit Trailer Co., 481 Beaufait St., Detroit 7, Mich.
Dorsey Trailers, Inc., Elba, Ala. (Van, stake, platform, pole, machinery, etc.)
Easton Car & Construction Co., Liberty & Holley Sts., Easton, Pa. (Off-highway for mines and quarries and earth moving.)
Edwards Equip Co., 4312 Main St., Yakima, Wash. (Straddle.)

# HOT OR COLD...
# HIGH OR LOW...

## "it's all in a days work" with **CLEVITE 77*** bearings

Fleet operators have learned by experience that *no* service is too severe for long-mileage Clevite 77 engine bearings.

Here's a typical report from a large West Coast truck line using Clevite 77's exclusively: "Our heavily loaded trucks often leave (elevation 4,000 feet) in 20° below zero weather, climb over a mountain pass (elevation 8,000 feet) where the temperature is 30° below zero, and then down to a valley (elevation 200 feet) where the temperature is 100° above, or more".

Rapid climbing and frequent up and down shifting, to say nothing of extremes in temperature, demands the plus performance and high-duty stamina of Clevite 77 bearings. Your nearby N.A.P.A. jobber offers complete, fast service.

N.A.P.A. Answers of Quality

*Your NAPA Jobber is a Good Man to Know!*

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# Monmouth
## ENGINE BEARINGS

**CLEVITE SERVICE** • *The Cleveland Graphite Bronze Co.* • *Division of Clevite Corporation, Cleveland, Ohio, U.S.A.*

**TRAILERS—continued**

**Eidal Mfg. Co., 250 Woodward Rd. S.E.,** Albuquerque, N. M. (Semi and full heavy duty off-highway logging, mining, oil field, freight and special purpose.)

Eight Point Trailer Co., 6100 E. Washington Blvd., Los Angeles 22, Calif. (Special.)

Elder Trailer & Body Inc., 4830 Race St., Denver 16, Colo. (Stock and utility to order.)

**Eshelman Co., Cheston L., 109 Light St., Baltimore 2, Md. (Two-wheel.)**

Evans **Mfg. Co., John, 3 Miles South on Hwy.** 15A, Sumter, S. C. (Flat, log, low-bed dump, van and **special pulpwood.)**

**F.A.B. Mfg. Co., 1249 67th St., Oakland 8,** Cal. (Full, semi, log and machinery.)

Farrell Mfg. Co., 804 E. Cass St., Joliet, Ill. (Tank.)

Fayette Mfg. Co., Haulette Div., Morenci, Mich. (Low bed for construction equipment.)

**Feigelson Co., Alex., 500 S. Fourth St., Beaumont, Tex. (Oilfield, logging, low bed, etc.)**

Fontaine **Truck Equipment Co., 1232 37th** Place N., Birmingham, Ala. (Machinery.)

Foster **Trailer Co., 2026 Bay St., Los Angeles 21, Calif. (Tilt-bed.)**

Freightliner Corp., 5400 N. Basin Ave., Portland, Ore.

**Fruehauf-Carter Div. Fruehauf Trailer Co.,** 2832 Winchester Pike, Memphis, Tenn.

Fruehauf **Trailer Co., 10940 Harper Ave., Detroit 32, Mich.**

Gindy Mfg. Corp., Boot Rd. & Chestnut St., Downingtown, Pa.

Gramm Trailer Corp., 425 E. O'Connor **Ave.,** Lima, Ohio. (Semi-cargo, bulk, transport and tank.)

Great Dane Trailers Inc., P. O. Box 1159, Savannah, Ga. (Aluminum, dry cargo and refrigerated, flat-platform and petroleum **transport.)**

Hanson Clutch **& Machinery Co., Wall &** Miami Sts., Tiffin 15, Ohio. (Low platform.)

Heil Co., 3000 W. **Montana St., Milwaukee 1,** Wis. (Steel tank.)

Hercules Galion Products, Inc., Galion, Ohio. (Dump.)

**Highway Trailer Co., 405 E. Fulton St., Edgerton,** Wis. (Pipe, pole, cable reel, tank, van, **oil field, livestock, grain, etc.)**

Hobbs Trailers Div., Fruehauf Trailer Co., 609 N. Main **St., Fort Worth 1, Tex. (Pole,** dump logging, machinery, cattle, **grain,** oil field, pipe and **refrigerated.)**

Holan Corp., J. H., 4100 W. 150th **St., Cleveland** 35, Ohio. (Pole and cable reel.)

**Humes Truck & Trailer Mfg. Co., 907 Franklin** Ave., Steubenville, Ohio. (Semi, tandem and **four wheel.)**

Ideal Mfg. Co., 1107 S. 7th St., Oskaloosa, Iowa. **(2-wheel utility.)**

Kelly Ryan Equipment Co., Blair, Nebr. (Utility.)

Kentucky Mfg. Co., 2601 S. Third St., Louisville 8, Ky.

**Keystone Trailer & Equipment Co., 1501** Guinotte **Ave., Kansas City 20, Mo.**

**Kingham Trailer Co., 15th & Hill Sts.,** Louisville 10, Ky.

**La Crosse Trailer Corp., 418 Gould St., La Crosse, Wis. (Also machinery.)**

**Langlois Bros., 717 S. San Pedro St., Los Angeles 14, Calif.**

**Lufkin Foundry and Machine Co., Lufkin, Tex. (Van, platform, float, pole, low boy, etc.)**

Lyncoach **& Truck Co., 443 Chestnut St., Oneonta, N. Y. (Medical, dental, business display, cargo, etc.)**

McCabe-Powers Body Co., 5900 N. Broadway, St. Louis 15, Mo. (Hydraulic dump, pole and utility.)

**McKay Mfg. Co., John A., Dunn, N. C.**

**Marion Metal Products Co., Cheney Ave., Marion, Ohio. (Dump.)**

Martin Machine Co., 816 N. East St., Kewanee, Ill. **(Heavy duty machinery; sole distributors, Caterpillar Tractor Co., 600 W. Washington St., Peoria 8, Ill.)**

**Mastercraft Trailers, Inc., Middlefield St., Middletown, Conn. (Two-wheel utility.)**

Miami Specialties Co., W. Trade Rd., Troy, Ohio.

Mighty Mover Straddle Trailer Co., 1701 E. Louisiana St., Denver, Colo. (Straddle.)

Miller Trailers, Inc., 333 Sixth Ave. W., Bradenton, Fla. (Dry freight refrigerated drop frame platform and bulk fruit.)

**Miller & Smith Mfg. Co., 500 Phoenix Ave., N. W., Albuquerque, N. Mex.**

**Montgomery Body & Trailer Mfg. Co., Route** 37 South, Salem, Ill.

Nabors Co., W. C., Mansfield, La.

Ohio Body **Mfg. Co., New London, Ohio.** (Semi.)

Omaha Standard, 2401 W. Broadway, **Council Bluffs, Iowa. (Construction type bottom** dump, end dump, livestock & grain.)

Oren Fire Apparatus Co., 1201 W. Salem Ave., Roanoke, Va. **(Fire pumping units.)**

**Page & Page Co., 0605 S. W. Curry St., Port**land 1, Ore. (Dual axle logging, tilt bed, machinery and wood chip.)

Paul Bunyan **Co., 1602 Cove Ave., La Grande, Ore.**

Pierce Trailer & Equipment Co., 1306 S. E. Ninth Ave., Portland 14, Ore. **(Logging, lumber and machinery.)**

Pointer-Willamette Co., P. O. Box 368, Edmonds, Wash. (Machinery, highway, logging **and special types.)**

Progress **Mfg.** Co., Oil Equipment Div., Arthur, Ill. (For asphalt and other liquids.)

Reliance Trailer **& Truck Co., 2765 16th St., San Francisco 3, Cal. (Also logging.)**

Remke Inc., 28100 Groesbeck Hwy., Roseville, Mich.

**Rogers Bros. Corp., Orchard St., Albion, Pa. (Low bed heavy duty.)**

**Santeler Bros., 950 E. Main St., Columbus 5, Ohio.**

Schafer Plow Co., 28 Simpson St., Pratt, Kans.

Schertzer Equipment Co., 32 Prospect St., Somerville 28, Mass.

Selma Trailer & Mfg. Co., 3111 Highway 99, Selma, Calif.

Spartan Aircraft Co., 1900 N. Sheridan Rd., Tulsa, Okla.

**Spen & Co., Henry, 1995 Pitkin Ave., Brook**lyn 7, N. Y. (Utility, floodlight, oxygen, servicing and mobile motion picture units.)

**Spencer-Saffard Loadcraft, Inc., Augusta, Kas.** (Semi oil field, pole, four-wheel, low-bed, etc.)

**Standard Trailer Co., 415 Park St., San Leandro, Calif.**

Strick Trailers, Div. of Fruehauf Trailer Co., 5604 N. Broad St., Philadelphia 11, Pa. (Plastic refrigerated and aluminum.)

Superior Trailer **Mfg. Corp., 1125 Georgia St.,** Indianapolis, Ind. (Aluminum, dry cargo, refrigerated, flat, platform and petroleum transfer.)

Superior Trailer Works, 1430 E. Washington Blvd., Los Angeles 21, Calif. (Semi full low-bed, tilt-bed and petroleum coke.)

Talbert Trailers Inc., Box 56, Lyons, Ill. (Low-bed and dump.)

**Thomas & Co., Peter, 1320 Main St., Seattle 22, Mass.**

Thompson Trailer Corp., 2 Old Court Rd., Pikesville, Md.

Timmons Metal Products Co., 845 Harrisburg Pike, Columbus 16, Ohio. (Vending.)

**Timpte Bros., Inc., E. 40th Ave. & York St.,** Denver 5, Colo.

Towner Mfg. Co., Box 264, Santa Ana, Calif.

Trailco **Mfg. & Sales Co., Mill St., Hummels** Wharf, Pa. (Semi.)

**Trailmobile, Inc., 31st & Robertson Aves., Cincinnati 9, Ohio.**

**Transport Trailers Inc., 1200 12th St., S. W.,** Cedar Rapids, Iowa. (Dump low-bed, platform, **tilt, etc.)**

**Truck Engineering Corp., 1285 W. 70th St.,** Cleveland 2, Ohio. (Four-wheel, semi-pole low bed machinery, end dump and hopper bottom dump.)

Truck Parts & Equip Inc., 82 E. Harry St., Wichita, Kans.

Truck-Trailer **Supply Co., 720 W. Broadway,** Stafford, **Kans. (Pole, grain,** low-boy and oil field.)

Tyler Equipment Co., 1919 Sawyer St., Houston 10, **Tex. (Horse, stock, etc.)**

**Utility Tool & Body Co., 151 E. 16th St.,** Clintonville, Wis. (Public utility, cable reel pole telescoping and low bed transformer.)

Utility Trailer Mfg. Co., P. O. Box F-1, City of Industry, Calif.

**Veenema & Wiegers, Inc., 241 N. Tenth St., Paterson 2, N. J. (Aluminum.)**

**Vulcan Trailer Mfg. Co., 901 34th St. N., Birmingham, Ala. (Low-bed, platform and aluminum van.)**

Weber Trailer & Mfg. Co., 8400 E. Slauson Ave., Rivera, Calif. **(Mailing address, P. O.** Box 2473, Los Angeles 54, Calif.) **(Semi,** four, six-wheel and machinery.)

Wells Cargo, Div. of Prairie Schooner Inc., 1501 W. Bristol St., Elkhart, Ind.

Westland Trailer Co., 3900 N. W. Yeon Ave., Portland 10, Ore.

**Wentworth & Irwin, Inc., 123 N. E. Oregon St., Portland 14, Ore. (Also logging and lo-bed.)**

Whitehead & Kales Co., 58 Haltiner St., River Rouge 18, Mich.

Williamsen Body & Equipment Co., Ninth & Wall Sts., Ogden, Utah.

Wilson Trailer Co., 2400 Leech Ave., Sioux City 6, Iowa. (Grain, livestock, **van and refrigerated.)**

Winter-Weiss Co., 2201 Blake St., Denver 5, **Colo. (Low bed and machinery.)**

Wolf Engrg. Corp., 1201 Main St., Dallas, Tex.

**TRANSMISSION JACKS, See Jacks, Transmission**

**TRANSMISSION STANDS, See Stands, Engine and Transmission Repair**

**TRANSMISSIONS**

Allison Div., General Motors Corp., P. O. Box 894, Indianapolis 6, Ind.

Clark Equipment Co., Transmission Div., 1300 Falahee Rd., Jackson 3, Mich. (Truck and **bus.)**

Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. (Bus and truck.)

Detroit Transmission Div., General Motors Corp., Willow Run, Mich. (Mailing address, Ypsilanti, Mich.)

Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo, Mich.

New Process Gear Div. Chrysler Corp., 500 Plum St., Syracuse, N. Y.

Warner Gear Div., Borg Warner Corp., 1106 E. Seymour St., Muncie, Ind.

**TRANSMISSIONS, Automatic**

Allison Div., General Motors Corp., P. O. Box 894, Indianapolis 6, Ind.

Detroit Gear Div., **Borg-Warner Corp., 12345** Kercheval Ave., Detroit 14, Mich.

Warner Gear Div., **Borg-Warner Corp., 1106** E. Seymour St., **Muncie, Ind.**

**TRANSMISSIONS, Auxiliary**

Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 56, Calif.

Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.

Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo, Mich.

**Sherman Products, Inc., 3200 W. 14 Mile Rd.,** Royal Oak, Mich. (Tractor)

Truckstell Mfg. Co., 1437 Union Commerce **Bldg., Cleveland 14, Ohio. (Three speed** axle drive power divider.)

Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind. **(Overdrive** unit.)

**Watson Co., H. S. 1316 67th St., Emeryville, Calif.**

**TRUCKS, Diesel**

American Coleman Co., Littleton, Colo.

Autocar Div. of White Motor Co., Lancaster Ave., Exton, Pa.

Available Truck Co., Div. of Crane Carrier Corp., P. O. Box 5008 Tulsa, Okla.

Brockway Motor Trucks, Div. of **Mack Trucks** Inc., 106 Central Ave., Cortland, N. Y.

Cline Truck Co., 3501 Gardner Ave., Kansas City 20, Mo.

Cook Bros. Equipment Co., **3334 San Fernando Rd., Los Angeles 65, Calif.**

Corbitt Co., Parham St., Henderson, N. C.

**Diamond T Motor Car Co., 4401 W. 26th St.,** Chicago 23, Ill.

**Duplex Div., Warner & Swasey Co., Hazel St., Lansing 4, Mich.**

Euclid Div., General Motors Corp., 1361 Chardon Rd., Cleveland 17, Ohio **(Dump, for** off-highway.)

Federal Motor Truck Co., 834 N. 7th St., Minneapolis 11, Minn.

**Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis.**

**Freightliner Corp., 5400 N. Basin Ave., Port**land, Ore.

**GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.**

**Hendrickson Mfg. Co., 8001 W. 47th St.,** Lyons, Ill.

**International Harvester Co., Harvester Bldg.,** 180 N. Michigan Ave., Chicago 1, Ill.

**KW-Dart Truck Co., 2623 Oak St., Kansas** City 8, Mo.

**Kenworth Motor Truck Corp., 8801 E. Marginal** Way, Seattle 8, Wash.

Mack Trucks Inc., 1355 W. Front St., Plainfield, N. J.

**Oshkosh Motor Truck, Inc., 2300 Oregon St.,** Oshkosh, Wis.

# "Hot highways made blowouts a real problem for us until...

# we switched to nylon cord tires"

*REPORTS J. R. BRODNAX, JR., TIRE MANAGER, HERRIN TRANSPORTATION CO., HOUSTON, TEXAS*

**MR. BRODNAX** puts nylon cord tires on all of his company's trucks, finds that nylon results in the lowest tire costs yet.

"On roads where *normal* temperatures reach 105 degrees, we were having too many road delays from blowouts. We found that nylon resists the blistering highway heat that kills tires made with ordinary tire cord. In our trucking operation, with 700 vehicles, that kind of protection means *lower operating costs.* Nylon gives tires the toughness that permits thousands of safe, extra miles, many more retreads, and practically no blowouts due to tire cord failure. We put nylons on all our trucks and our mileage records have proved to us without a doubt that nylon means many more miles per tire, better cost per mile."

Prove to yourself that nylon cord tires cut tire costs and increase average tire mileage. Nylon cord tires are made by all major tire makers (Du Pont makes only the tough nylon yarn that gives strength to the tire).

DU PONT REG. U.S. PAT. OFF. BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

**THE SAFEST, STRONGEST TIRES ARE MADE WITH NYLON**

### TRUCKS—continued

Parsons Co., Newton, Iowa. (For off-highway service.)
Peterbilt Motors Co., 107th Ave. & MacArthur Blvd., Oakland 5, Calif.
Reo Div. White Motor Co., 1331 S. Washington Ave., Lansing 20, Mich.
Sicard Industries, Inc., 753 W. Main St., Watertown, N. Y. (Rotary snow plows and street flushers.)
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, Brooklyn 27, N. Y.
Ward-LaFrance Truck Corp., Elmira, N. Y.
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.

### TRUCKS, DUMP (Construction & Off-Highway)

Autocar Div., Motor Co., Lancaster Ave., Exton, Pa.
Duplex Div., Warner & Swasey Co., 830 E. Hazel St., Lansing 4, Mich.
Euclid Div., General Motors Corp., 1361 Chardon Rd., Cleveland 17, Ohio.
Four Wheel Drive Auto Co., E. 12 St., Clintonville, Wis.
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd. E., Pontiac 11, Mich.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
KW-Dart Truck Co., 2623 Oak St., Kansas City 8, Mo.
Kenworth Motor Truck Co., 8801 E. Marginal Way, Seattle 8, Wash.
Mack Trucks, Inc., 1355 W. Front St., Plainfield, N. J.
Oshkosh Motor Truck, Inc., 2300 Oregon St., Oshkosh, Wis.
Peterbilt Motors Co., 107th Ave. & MacArthur Blvd., Oakland 5, Calif.
Reo Motors Div., White Motor Co., 1331 S. Washington Ave., Lansing, Mich.

### TRUCKS, Fire Apparatus

American-LaFrance Corp., 157 E. LaFrance St., Elmira, N. Y. (Gasoline.)
Crown Coach Corp., 2500 E. 12th St., Los Angeles 21, Calif.
Federal Motor Truck Co., 834 N. Seventh St., Minneapolis 11, Minn.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis.
General Fire Truck Co., 25631 Little Mack St., St. Clair Shores, Mich.
Gichner Iron Works, Inc., Fred S., 1214 24th St., N. W., Washington 7, D. C.
Hahn Motors, Inc., 400 S. Third St., Hamburg, Pa.
Howe Fire Apparatus Co., 1402 W. 22nd St., Anderson, Ind.
Mack Trucks, Inc., 1355 W. Front St., Plainfield, N. J.
Maxim Motor Co., 170 Wareham St., Middleboro, Mass.
Oren Roanoke Corp., 1201 W. Salem Ave., Roanoke, Va.
Pirsch & Sons Co., Peter, 1308 35th St., Kenosha, Wis.
Seagrave Corp., 2000 S. High St., Columbus, Ohio.
Universal Fire Apparatus Corp., Ft. of Wheatland Ave., Logansport, Ind.
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, Brooklyn 27, N. Y.
Ward-LaFrance Truck Corp., Elmira, N. Y.

### TRUCKS, Gasoline

American-Coleman Co., Littleton, Colo.
Autocar Div. of White Motor Co., Lancaster Ave., Exton, Pa.
Available Truck Co., Div. of Crane Carrier Corp., P. O. Box 5008, Tulsa, Okla.
Brockway Motor Trucks Div., Mack Trucks Inc., 106 Central Ave., Cortland, N. Y.
Champion Carriers Inc., 65 N. Madison St. (P. O. Box 2651), Tulsa, Okla. (Off-highway.)
Chevrolet Motor Div. of General Motors Corp., General Motors Bldg., Detroit 2, Mich.
Cline Truck Co., 3501 Gardner Ave., Kansas City 20, Mo.
Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 65, Calif.
Corbitt Co., Parham St., Henderson, N. C.
Crown Coach Corp., 2500 E. 12th St., Los Angeles 21, Calif.
Diamond T Motor Car Co., 4401 W. 26th St., Chicago 23, Ill.
Divco Truck Div., Divco-Wayne Corp., 22000 Hoover Rd., Detroit 5, Mich. (Door to door delivery.)
Dodge Div., Chrysler Corp., 7900 Joseph Campau Ave., Detroit 31, Mich.
Duplex Div., Warner & Swasey Co., Hazel St., Lansing 4, Mich.
Esco Motor Co., c/o Exhibitor's Service Co., 85 Helens St., McKees Rocks, Pa.
Federal Motor Truck Co., 834 N. 7th St., Minneapolis 11, Minn.
Ford Div., Ford Motor Co., 29500 Plymouth Rd., Dearborn, Mich.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis.
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.
Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, Ill.
International Harvester Co., Harvester Bldg., 180 N. Michigan Ave., Chicago 1, Ill.
KW-Dart Truck Co., 2623 Oak St., Kansas City 8, Mo. (Off highway.)
Kenworth Motor Truck Co., 8801 E. Marginal Way, Seattle 8, Wash.
Mack Trucks Inc., 1355 W. Front St., Plainfield, N. J.
Marmon-Herrington Co., Inc., 1511 W. Washington St., Indianapolis 7, Ind. (Four wheel drive.)
Milford Crane & Machine Co., 143 Buckingham Ave., Milford, Conn. (Crane-truck.)
Oshkosh Motor Truck, Inc., 2300 Oregon St., Oshkosh, Wis.
Peterbilt Motors Co., 107th Ave. & MacArthur Blvd., Oakland 5, Calif.
Pontiac Motor Div., General Motors Corp., Pontiac 11, Mich.
Reo Div., White Motor Co., 1331 S. Washington Ave., Lansing 20, Mich.
Sicard Industries, Inc., 753 W. Main St., Watertown, N. Y. (Rotary snow plows and street flushers.)
Studebaker-Packard Corp., 635 S. Main St., South Bend 27, Ind.
Truckstell Mfg. Co., 1435 Union Commerce Bldg., Cleveland 14, Ohio. (Dual axle drive conversions.)
Volkswagen of America, Inc., Englewood, N. J.
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, Brooklyn 27, N. Y. (Also snow fighters.)
Ward-LaFrance Truck Corp., Elmira, N. Y.
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.
Willys Motors, Inc., 940 N. Cove Blvd., Toledo 1, Ohio. (Also jeeps, station wagons and utility vehicles.)
Wolf Engrg. Corp., 1201 Main St., Dallas, Tex.

### TRUCKS, Hand

Automatic Transportation, Div. Yale & Towne Mfg. Co., 101 W. 87th St., Chicago 20, Ill. (Motorized.)
Bernard Gloekler North East Co., Robinson and Wall Sts., North East, Pa.
Big Joe Mfg. Co., 900 W. Jackson Blvd., Chicago 7, Ill.
Clark Co., Geo. P., 35 Canal St., Windsor Locks, Conn.
Clark Equipment Co., Industrial Trucks Div., Battle Creek 85, Mich.
Colon Co., Leroy L., 2916 N. Cicero Ave., Chicago 41, Ill.
Colson Corp., Elyria, Ohio.
Durlach Can & Iron Works, 360 Ninth St., Brooklyn 15, N. Y.
Excelsior Plimtruck Co., 796 Atlantic St., Stamford, Conn.
Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis.
Fairbanks Co., 393 Lafayette St., New York 3, N. Y.
French & Hecht Div., Kelsey-Hayes Co., 3rd & Farnam Sts., Davenport, Iowa.
Hamilton Caster & Mfg. Co., 1517 Dixie Highway, Hamilton, Ohio.
Howell Industrial Truck Co., 1083 Erie Cliff St., Cleveland 7, Ohio.
Jakes Foundry Co., P. O. Box 1275, Nashville, Tenn.
Koehring Co., 3026 W. Concordia Ave., Milwaukee 10, Wis.
Lansing Co., 603 N. Cedar St., Lansing 3, Mich.
Leebaw Mfg. Co., 65 Wayne Ave., Youngstown 2, Ohio.
Lewis-Shepard Products, Inc., 125 Walnut St., Watertown, Mass.
Mercury Mfg. Co., 4044 S. Halsted St., Chicago 9, Ill.
Monroe Mfg. Co., C. N., 2525 S. Dort Highway, Flint 7, Mich. (Folding.)
Nutting Truck & Caster Co., 1125 W. Division St., Faribault, Minn.
Rapids-Standard Co., 100 Rapistan Bldg., Grand Rapids 2, Mich.
Rolack Inc., 1350 Kings Highway, Fairfield, Conn.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 31, Calif.
Sabin Machine Co., 6536 Carnegie Ave., Cleveland 3, Ohio.
Sage Equipment Co., 30 Essex St., Buffalo 13, N. Y.
Saginaw Products Corp., 68 Williamson St., Saginaw, Mich.
Selma Trailer & Mfg. Co., 3111 Highway 99, Selma, Calif.
Skarnes Engrg. & Supply, Inc., 2907 E. Franklin Ave., Minneapolis 6, Minn.
Standard Pressed Steel Co., Jenkintown, Pa.
Thomas Truck & Caster Co., 1021 Mississippi River, Keokuk, Iowa.
Towmotor Corp., 1226 E. 152 St., Cleveland 10, Ohio.
Uhrden Inc., 508 Grant St., Dennison, Ohio.
Walker Vehicle & Automatic Transportation Divs., Yale & Towne Mfg. Co., 101 W. 87st St., Chicago 20, Ill. (Motorized.)
Wellington Machine Co., 133 DeWolf St., Wellington, Ohio. (Hydraulic)
West Bend Equipment Corp., 216 S. Water St., West Bend, Wis.
Western Gear Corp., 2600 E. Imperial Highway, Lynwood, Calif.
Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Bldg., Philadelphia 15, Pa.

### TRUCKS, Lift, Diesel

Allis-Chalmers Mfg. Co., Engine Material Handling Div., 1135 S. 70th St., Milwaukee 1, Wis.
Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich.
Hyster Co., 2900 N. E. Clackamas St., Portland 8, Ore.
Oliver Corp., A. B., Farquhar Div., 142 N. Dude St., York, Pa.
Towmotor Corp., 1226 E. 152nd St., Cleveland 10, Ohio.

### TRUCKS, Lift, Electric

American Pulley Co., 4200 Wissahickon Ave., Philadelphia 29, Pa.
Automatic Transportation Co., Div. Yale & Towne Mfg. Co., 101 W. 87th St., Chicago 20, Ill.
Baker Industrial Truck Div. of Otis Elevator Co., 8000 Baker Ave., Cleveland 2, Ohio. (Electric or gas-electric.)
Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.
Big Joe Mfg. Co., 900 W. Jackson Blvd., Chicago 7, Ill.
Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich.
Economy Engrg. Co., 4511 W. Lake St., Chicago 24, Ill.
Elwell-Parker Electric Co., 4205 St. Clair Ave., Cleveland 3, Ohio. (Also gas-electric.)
Howell Industrial Truck Co., 1083 Erie Cliff St., Cleveland 7, Ohio.
Lewis-Shepard Products, Inc., 1050 Walnut St., Watertown, Mass. (Also gas-electric.)
Lift Trucks, Inc., Spring Grove St., Cincinnati 1, Ohio.
Mercury Mfg. Co., 4700 W. Division St., Chicago 51, Ill.
Moto-Truc Co., 1953 E. 59th St., Cleveland, Ohio.
Portable Lift Trucks Inc., 2861 Sidney Ave., Cincinnati 25, Ohio.
Raymond Corp., 151 Madison St., Greene, N. Y.
Revolvator Co., U. S. Route 1 at 86th St., North Bergen, N. J.
Uhrden Inc., 508 Grant St., Dennison, Ohio.
Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Blvd., Philadelphia 15, Pa.

### TRUCKS, Lift, Gasoline

Allis-Chalmers Mfg. Co., Engine Material Handling Div., 1135 S. 70th St., Milwaukee 1, Wis. (Also LP-Gas.)
American Tractor Corp., Churubusco, Ind.
Automatic Transportation Co., Div. of Yale & Towne Mfg. Co., 101 W. 87st St., Chicago 20, Ill.
Baker Industrial Truck Div. of Otis Elevator Co., 8000 Baker Ave., Cleveland 2, Ohio. (Also gas-electric.)
Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich.
Cushman Motor Works Inc., 920 N. 21st St., Lincoln, Nebr.
Erickson Power Lift Trucks Inc., St. Anthony Blvd. & University Ave., N. E., Minneapolis 18, Minn. (Fork and platform types.)

# ADVANCED DESIGN PISTONS

## By GILLETT AND EATON

## for Longer Heavy Duty Service

### TROUBLE-FREE with thousands in use

★ Low initial cost ★ Low cost per mile

★ Amazing increase in piston life

★ Maintains new engine power and performance

**G and E**

**WIRE INSERTS PUT CAST IRON WEAR IN TOP RING GROOVE**

G and E Wire Insert Piston before machining (left) and after ring grooves are cut (right) showing how the steel wire forms a tough wear-resisting surface on both faces of top ring groove. The patented ferrous plug molded in the head (for diesel pistons) prevents burning through head and lengthens diesel piston life!

With the thousands of G and E "Wire Insert" Pistons in use for periods up to 3 years—a phenomenal record for trouble-free operation has been established. The "Wire Insert" greatly reduces top ring groove wear and increases piston life.

The "Wire Insert" piston design—exclusive with G and E—combines all the advantages of aluminum alloy pistons with the long life of steel in the top ring groove lands. No noticeable increase in weight—unequalled for rapid heat flow—and at low cost.

A pre-shaped steel wire is cast into the piston where the top ring is located. When the grooves are machined, the closely spaced wire surfaces form hard bearing areas on top and bottom faces of the groove. Result—reduced ring land wear, longer piston life at lower cost.

*Get the G and E Wire Insert story today.*

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## as LIGHT as aluminum . . . wears LIKE IRON

# VANASIL*

### "OIL-ABSORBING" PISTONS

### FOR GASOLINE AND DIESEL ENGINES

*Gillett & Eaton's trademark for a vanadium . . . high silicon . . . aluminum alloy.

**VANASIL** Pistons have repeatedly run way over 200,000 miles with only .002" to .005" wear on the top ring grooves. On-the-road ring breakdowns caused by badly worn grooves are almost eliminated because *Vanasil Pistons reduce top ring groove wear up to 75%!* Nothing else compares with the genuine G & E Vanasil—the original high silicon alloy, proven by 19 years of use.

**You Get ALL These Advantages Only In**

**GENUINE VANASIL PISTONS**

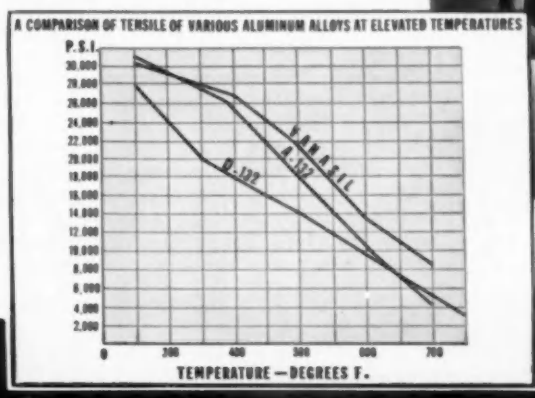
**G & E PROVED Vanadium . . . High Silicon . . . Aluminum Alloy**

1. LIGHT WEIGHT—Same as other aluminum alloys.
2. SCORING, SCUFFING MINIMIZED—Because of "Oil Absorbing" microscopic porous texture.
3. LONGER LIFE—30% less friction—30% harder. Greater "hot strength"—see chart at right.
4. TOP RING—Breakage virtually eliminated because of reduced ring groove wear.
5. LOW EXPANSION—Characteristics of Cast Iron.
6. CLOSE CLEARANCES—Fitted with Cast Iron Clearances.
7. SOLID SKIRT DESIGN—No expansion devices required.
8. HIGH HEAT CONDUCTIVITY—Similar to other aluminum alloys.
9. PLATING—No tin or other break-in coating required.

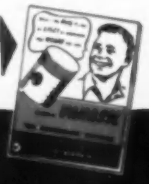
**VANASIL PISTON WAREHOUSE STOCKS**

CALIFORNIA—Automotive & Industrial Whse. Co., 1341 So. Hope St., Los Angeles 15; Piston Supply Warehouse, 2768 Grove St., Oakland 12

NEW YORK—Bethlehem Equipment Co., 109 W. 64th St., New York 23




Write for complete information and prices on Gillett and Eaton's Wire Insert and Vanasil longer lived pistons.



*"Our 90th Anniversary Year"*

**GILLETT and EATON, Inc.** 802 DOUGHTY STREET LAKE CITY, MINNESOTA

# This Champion "know how" helps you get top

Champion representative Don Midgley shows Peter Seputo, maintenance foreman for Vernor's Ginger Ale, Detroit, how to solve excess-fouling problem in lift-truck engine (see Service Tips)

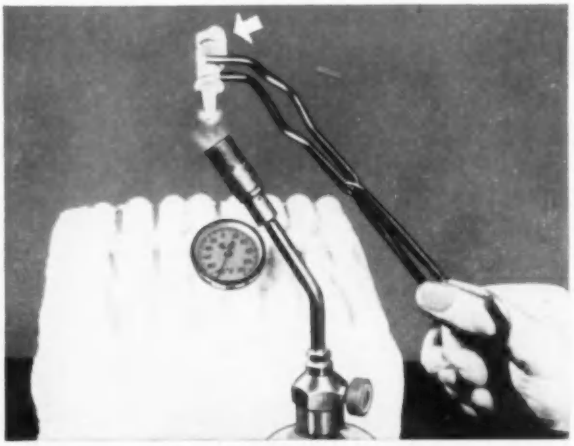
**EXCLUSIVE TECHNICAL HELP**

Does your fleet operate under tough or unusual conditions? Your Champion representative may be able to help you improve ignition performance. His recommendations are based on his own broad experience in helping other fleets – and on the steadily growing fund of fleet ignition experience possessed by Champion, which has the world's largest research and engineering organizations devoted exclusively to spark plugs. Take advantage of this exclusive "know how." Ask your Champion representative to call.

CHAMPION SPARK PLUG COMPANY

# spark plug performance under any condition

**WIDER OPERATING RANGE:** Champions give peak performance under conditions from turnpike speeds to stop-and-go city driving. *Every* Champion has exclusive design features that fight overheating at high speeds – give maximum fouling resistance at low speeds.



**IMPORTANT PRODUCT FEATURES:** The ceramic insulator is held in 3,000°F flame right after coming from dry ice at -100°. (Arrow points to frost) Champion insulators withstand these severe shocks – prove they can give top performance under any condition.

**RESEARCH AND PRODUCT DEVELOPMENT**
Champion's new Research and Engineering Center has the world's finest and most modern facilities for spark plug development. In laboratories like this, newly developed engines are tested to find the exact spark plug needed for peak performance. Tests like this pay off in better performance for your fleet.

DEPENDABLE 5-RIB

**CHAMPION**

SPARK PLUGS

TOLEDO 1, OHIO

### CHAMPION SERVICE TIPS
**for better engine performance**

Lift-truck engines and other gasoline engines that run at low r.p.m. for long periods often encounter spark plug fouling caused by built-up carbon and oil deposits. This problem can now generally be solved by use of Champion auxiliary-gap plugs.

The auxiliary gap is an air gap inside the plug which isolates the ignition system output from the plug's firing end. Without this secondary gap, deposits may bleed current as soon as it is built up in the coil, causing fouling. With the auxiliary gap, however, voltage first builds up at the spark plug terminal. Thus, for normal firing, even under severe fouling conditions, adequate voltage is suddenly delivered at the electrode gap.

Electrode life with these plugs is at least equal to conventional designs of comparable heat rating and no increase in radio noise has been detected. Spark plug boots have no effect on the operation of the auxiliary gap.

Keep these installations in mind where extensive idling, slow speeds or poor oil control encourage rapid carbon fouling:

10-mm. . . . . UY-6
14-mm. . . . . UJ-12
18-mm. . . . . UD-16

### TRUCKS—continued

Gerlinger Carrier Co., Lyle & Birch Sts., Dallas, Ore.
"H H" Mfrs., 2224 Cerritos Ave., Long Beach 6, Calif.
Howell Industrial Truck Co., 1083 Erie Cliff St., Cleveland 7, Ohio.
Hyster Co., 2980 N. E. Clackamas St., Portland 8, Ore.
Kwik-Mix Co., 235 W. Grand Ave., Port Washington, Wis.
Lamson Mobilift Corp., 835 S. E. Main St., Portland 14, Ore.
Lewis-Shepard Products, Inc., 1050 Walnut St., Watertown, Mass. (Gas-electric.)
Oliver Corp., A. B. Farquhar Div., 142 N. Duke St., York, Pa.
Ottawa Steel Div., L. A. Young Spring & Wire Corp., 435½ S. Main St., Ottawa, Kans.
Peterbilt Motors, Inc., 107th St. & MacArthur Blvd., Oakland 7, Calif.
Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y.
Towmotor Corp., 1226 E. 152nd St., Cleveland 10, Ohio. (Also LP-gas.)
Transitier Truck Co., 5475 N. Lagoon Ave., Swan Island, Portland 11, Ore.
Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Blvd., Philadelphia 15, Pa.

TRUCK LOADERS (ELEVATING TAILGATE), See Loaders, Truck (Elevating Tailgate)

### TRUCKS, Rental (Nationwide)

Hertz Driv-Ur-Self System, 218 S. Wabash Ave., Chicago 4, Ill.
National Truck Leasing Systems, 23 E. Jackson Blvd., Chicago 4, Ill.

TRUCK TANKS, See Tanks, Trailer and Truck Body

### TUBE FITTINGS

Aeroquip Corp., 300 S. East Ave., Jackson, Mich. (Self sealing couplings.)
Aircraft Fitting Co., 1400 E. 30th St., Cleveland 14, Ohio.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill.
Resistoflex Corp., Belleville 9, New Jersey.
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J.
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

### TUBES, Inner

Armstrong-Norwalk Rubber Corp., Glover Ave., Norwalk, Conn.
Armstrong Rubber Co., 475 Elm St., West Haven 16, Conn.
Carlisle Tire & Rubber Div., Carlisle Corp., 621 N. College St., Carlisle, Pa.
Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.
Corduroy Rubber Co., Fuller Ave. & G. T. Tracks, Grand Rapids 1, Mich.
Dayton Rubber Co., 2342 Riverview Ave., Dayton 1, Ohio.
Denman Rubber Mfg. Co., Warren, Ohio.
Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.
Dunlop Tire & Rubber Corp., Sheridan Dr. & River Rd., Buffalo 5, N. Y.
Durkee-Atwood Co., 215 Seventh St., N. E. Minneapolis 13, Minn.
Enjay Co., Inc., 15 W. 51st St., New York 19, N. Y.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Fisk Tire Co., Div. U. S. Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.
Goodrich Tire Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Inland Rubber Corp., 515 Newman St., Mansfield, Ohio.
Kelly-Springfield Tire Co., P. O. Box 300, Cumberland, Md.
Laher Tire & Rubber Co. of Calif., 26th & Magnolia Sts., Oakland, Calif.
Lee Rubber & Tire Corp., Conshohocken, Pa.
McCreary Tire & Rubber Co., Box 700, Indiana, Pa.
Mansfield Tire & Rubber Co., 515 Newman St., Mansfield, Ohio.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.
Mohawk Rubber Co., 1235 Second St., Akron 5, Ohio.
Pennsylvania Tire Co., P. O. Box 377, Mansfield, Ohio.
Polson Rubber Co., Garrettsville, Ohio.
Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.
Robbins Tire & Rubber Co., P. O. Box 230, Tuscumbia, Ala.
Schenuit Rubber Co., Frank S., Railroad and Union Aves., Baltimore 11, Md.
Seiberling Rubber Co., Akron 9, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Avenue of the Americas, New York 20, N. Y.

### TUBES, Used

(Advertiser only)

Washington Rubber Waste Co., Inc., 3141 Washington Blvd., Baltimore 30, Md.

### TUBING, Brass and Copper

American Brass Co., 414 Meadow St., Waterbury 20, Conn.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Chase Brass and Copper Co., 236 Grand St., Waterbury 20, Conn.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Copper.)
Excello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Formed Tubes Inc., S. Prairie & Albert Sts., Sturgis, Mich.
Kensico Tube Co., Hubbell's Cross Rd., Mt. Kisco, N. Y. (Copper.)
Lewin-Mathes Co., 12th St. & Chouteau Ave., St. Louis, Mo. (Copper.)
Linderme Tube Co., 1500 E. 219th St., Cleveland 17, Ohio. (Copper.)
Mueller Brass Co., 1926 Lapeer Ave., Port Huron, Mich.
National Copper & Smelting Co., 1862 E. 123rd St., Cleveland 6, Ohio.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. (Copper.)
Penn Brass & Copper Co., 3837 W. 20th St., Erie, Pa. (Seamless copper.)
Perfect Parts Inc., 43 W. 23rd St., New York 10, N. Y. (Copper.)
Planet Metal Products Corp., 964 Dean St., Brooklyn 38, N. Y. (Copper.)
Precision Tube Co., Church Rd. & Wissahickon Ave., N. Wales, Pa.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Revere Copper and Brass Inc., 230 Park Ave., New York 17, N. Y.
Roll Formed Products Co., 3765 Oakwood Ave., Youngstown, Ohio.
Scovill Mfg. Co., 99 Mill St., Waterbury 20, Conn. (Brass.)
Superior Tube Co., P. O. Box 191, Norristown, Pa. (Beryllium copper.)
United Wire & Supply Corp., 1497 Elmwood Ave., Providence 7, R. I.
Velvac, Inc., 3534 W. Pierce St., Milwaukee 15, Wis.
Wells & Co., A. H., 177 E. Aurora St., Waterbury, Conn.
Wolverine Tube Div. of Calumet & Hecla, Inc., 17200 Southfield Rd., Allen Park, Mich.

### TUBING, Flexible Metallic

Alexander-Tagg Industries, Inc., Jacksonville Rd. & Summit Ave., Hatboro, Pa.
American Brass Co., American Metal Hose Div., 698 S. Main St., Waterbury 20, Conn.
Atlantic Metal Hose Co., 308 Dyckman St., New York 34, N. Y. (For exhaust, gas, air, oil, etc.)
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Co-Operative Industries, Inc., 100 Oakdale Rd., Chester, N. J.
D'Nomlart Inc., 100 Maple St., Ashburnham, Mass.
Flexico Products Inc., Middlesex Ave. & Factory St., Metuchen, N. J.
Flexonics Corp., 1315 S. Third Ave., Maywood, Ill.
Forsyth Metal Goods Co., Elm St., East Aurora, N. Y.
Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
International Metal Hose Co., Ashford Ave., Bellevue, Ohio.
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa.
Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa.
Revere Copper & Brass Inc., 230 Park Ave., New York 17, N. Y.
Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill.
Titeflex, Inc., Hendee St., Springfield, Mass.
Universal Metal Hose Co., 2133 S. Kedzie Ave., Chicago 23, Ill.

### TUBING, Loom

Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill. (Asbestos.)
Berg Mfg. & Sales Co., 1712 S. Michigan Blvd., Chicago 16, Ill.
Essex Wire Corp., 1601 Wall St., Fort Wayne, Ind.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Velvac Inc., 3534 W. Pierce St., Milwaukee 15, Wis.

### TUBING, Oil and Gasoline Line

AC The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Flexible.)
Accurate Products Inc., 135 N. Spring St., Indianapolis, Ind.
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
American Brass Co., American Metal Hose Div., 698 S. Main St., Waterbury 20, Conn. (Flexible, with fittings.)
American Coupling Corp., 2335 Goodrich St., Ferndale 20, Mich. (Flexible.)
Anchor Coupling Co., 342 N. Fourth St., Libertyville, Ill. (Flexible.)
Andrews Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
Atlantic Metal Hose Co., 308 Dyckman St., New York 34, N. Y. (Flexible.)
Avon Tube Div. of Higbie Mfg. Co., Charles St., Rochester, Mich.
Bundy Tubing Co., 8109 Jefferson Ave., Detroit 14, Mich. (Solid.)
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
Coronet Parts Mfg. Co., 883 Elton Ave., Brooklyn 8, N. Y. (Flexible and solid.)
Danielson Mfg. Co., Danielson, Conn. (Nylon.)
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Edelmann & Co., E., 2232 Logan Blvd., Chicago 47, Ill. (Flexible.)
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Flexible.)
Excello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y. (Flexible.)
Flexonics Corp., 1315 S. Third Ave., Maywood, Ill. (Flexible.)
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill. (Flexible.)
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. (Flexible non-metallic, with fittings.)
National Copper & Smelting Co., 1862 E. 123rd St., Cleveland 6, Ohio.
Penn Brass & Copper Co., 3837 W. 20th St., Erie, Pa. (Solid.)
Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa.
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y. (Flexible.)
Preferred Electric & Wire Co., Bush Terminal Bldg. 28, Brooklyn 32, N. Y.
Quaker Rubber Co., Tacony & Comly Sts., Philadelphia 24, Pa.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Resistoflex Corp., Woodland Rd., Roseland, N. J. (Flexible, with fittings.)
Steel and Tubes Div., Republic Steel Corp., 224 E. 131st St., Cleveland 8, Ohio.
Titeflex, Inc., Hendee St., Springfield, Mass. (All-metal flexible.)
United Wire & Supply Co., 1497 Elmwood Ave., Providence 7, R. I.
Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Fort Wayne, Ind. (Flexible non-metallic.)
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Wolverine Tube Div. of Calumet & Hecla, Inc., 17200 Southfield Rd., Allen Park, Mich. (Solid.)

# STOP the 4 D's in Fleet Operations!

Don't let these 4 D's stand in the way of profitable fleet operation — WIX Prescription Filtration effectively stops 'em all! You'll get more roadtime out of your vehicles when you install long-life WIX Lube, Fuel, and Air Filter Cartridges that remove dangerous contaminants while they lengthen maintenance intervals. There's a WIX HEVI-DUTY replacement Cartridge especially engineered for every filter-equipped engine — truck, bus, car, or other equipment.

WIX Filtration has been helping fleets of all sizes slash maintenance costs and increase productivity and profits for over 20 years. Get the facts for *your* operation — call your WIX Jobber, or write us TODAY! Ask for your FREE WIX Fleet Manual and arrange for a WIX Filter Survey that provides complete maintenance records at a glance and which shows the correct WIX replacement Cartridges for each vehicle in your fleet.

wix® FILTERS

as seen in... The Saturday Evening POST

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In Canada: Wix Corporation Ltd., Toronto

**TUBING, Windshield Wiper**

Acme Rubber Mfg. Co., 115 Meade St., Trenton, N. J.
**Bowling Green Rubber Co., 4143 Monroe St., Toledo 13, Ohio.**
**Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.**
Continental Rubber Works, 1946 Liberty St., **Erie, Pa.**
Crown Products Co., 5722 S. 77th St., Ralston, Neb.
**Dallas Mfg. & Sales Co., Box 7181 Dallas, Tex**
Durkee-Atwood Co., 215 Seventh St. N.E., Minneapolis 13, Minn.
**Gates Rubber Co., 999 S. Broadway, Denver 17 Colo.**
Goodrich Tire Co., B. F., 500 S. Main St., Akron 18, Ohio.
Kravex Mfg. Corp., 634 Prospect Pl., Brooklyn, N. Y.
**Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.**
**Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.**
Raybestos Div., Raybestos-Manhattan Inc., 75 E. Main St., Stratford 2, Conn.
Raybestos-Manhattan Inc., Equip. Sales Div., Stratford, Conn.
**Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.**
**Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.**
**Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.**
**Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.**

**TUNE-UP EQUIPMENT, See Analyzers**

**TUNE-UP OIL, See Oils, Upper Cylinder**

**TURBOCHARGERS**

Garrett Corp., AiResearch Industrial Div., 9225 S. Aviation Blvd., Los Angeles 45, **Calif.**
Schwitzer Corp., 1125 Massachusetts Ave., Indianapolis 7, Ind. (Exhaust driven.)
Thompson Products Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Diesel.)

**TURN SIGNALS, See Signals, Direction Indicating**

**UNDERCOATINGS, Chassis and Body**

Anderson-Pritchard Oil Corp., 1000 Liberty Bank Bldg., Oklahoma City 2, Okla.
**Battenfield Grease & Oil Corp., 3148 Roanoke Rd., Kansas City 8, Mo. (Underbody.)**
Borden Chemical Co., Div. of Borden Co., 350 Madison Ave., New York 17, N. Y.
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.
Carey Mfg. Co., Philip, Lockland, Cincinnati 15, Ohio. (Underbody.)
**Daubert Chemical Co., 333 N. Michigan Ave., Chicago 1, Ill.**
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y.
Gibson-Homans Co., 2366 Woodhill Rd., Cleveland, Ohio.
Hollingshead Corp., R. M., 840 Cooper St., **Camden, N. J.**
Hutson Div. of Gibson-Homans Co., Railroad & Institute Sts., Conyers, Ga. (Underbody.)
**Insul-Mastic Corp. of America, 7750 W. 61st Place, Summit, Ill. (Mastic.)**
Lion Oil Co., Lion Oil Bldg., El Dorado, Ark.
Moore & Co., Samuel, Mantua, Ohio.
Mortell Co., J. W., 550 N. Hobbie Ave., Kankakee, Ill.
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa.
Pioneer Products, Div. of Witco Chemical Co., 75 E. Wacker Dr., Chicago 1, Ill.
**Presstite-Keystone Engrg. Products Co., 3900 Chanteau St., St. Louis 10, Mo.**
Service Industries, 2103 E. Somerset St., **Philadelphia 34, Pa.**
**Steelcote Mfg. Co., 3418 Gratiot Ave., St Louis 3, Mo.**
Vibradamp Corp., 4401 Page Rd., Jackson, Mich.
Witco Chemical Co., 75 E. Wacker Drive, Chicago 1, Ill.

**UNDERCUTTERS, Mica**

**Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.**
**Atlas Press Co., 1842 N. Pitcher St., Kalamazoo 13D, Mich.**
**Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill. (Portable electric.)**
**International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill.**
King Electric Equip. Co., 9123 Inman Ave., Cleveland 5, Ohio.
**Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. (Portable electric.)**
Motoraide Corp., 2400 Emerald St., Philadelphia 25, Pa.
**Naas Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio.**
Newnan Machine Co., 38 James St., East Providence, R. I. (Hand and electric.)
**Red Devil Tools, Coit St., Irvington 11, N. J.**
Rite Tool, Inc., 136 Pocasset St., Fall River, Mass.
South Bend Lathe Works, 425 E. Madison St., South Bend 22, Ind.
Weidenhoff Corp., Algona, Iowa.
**Wood Co., Frank N., 344 W. Main St., Waukesha, Wis.**

**UNIFORMS, See Fabrics, Uniform**

**UNIVERSAL JOINTS**
**(See also Shafts, Propeller)**

Accurate Products, 135 N. Spring St., Indianapolis, Ind.

# "With Stainless Steel tankers we can guarantee clean shipments," says Mr. Carl Wilkens, Manager, Catalin Corp. of America Plant, Calumet City, Illinois

"Our sales people insisted that we get Stainless Steel tankers," says Mr. Wilkens. "With Stainless, we can guarantee our customers that shipments will not be contaminated.

"We transport industrial resins, formaldehyde, and phenol in each of the five Stainless tankers. We don't worry about residue from one shipment spoiling the next because the Stainless is easy to clean between batches. It resists corrosion and keeps a smooth, dense surface that can be thoroughly cleaned with detergents or caustic solutions. It takes only one hour to ready a Stainless tanker for a new shipment.

"Because the Stainless Steel is so resistant to corrosion, these tankers will last indefinitely. They're strong—need very little maintenance, and they always look good."

Eliminate corrosion and product contamination in your fleet. Make your next tanker Stainless Steel.

*USS is a registered trademark*

This Clean Bore tank of Type 316 Stainless Steel is made by the Heil Company, and has 3650 gallons capacity.

United States Steel Corporation—Pittsburgh
American Steel & Wire—Cleveland
National Tube—Pittsburgh
Columbia-Geneva Steel—San Francisco
Tennessee Coal & Iron—Fairfield, Alabama
United States Steel Supply—Steel Service Centers
United States Steel Export Company

USS United States Steel

**UNIVERSAL JOINTS—continued**

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.
American Automotive Products Co., 1818 S. Wabash Ave., Chicago 16, Ill.
Bendix Products Div., Bendix Aviation Corp., South Bend 20, Ind.
Blood Brothers Machine Co., Div. Rockwell Spring & Axle Co., Allegan, Mich.
Boston Gear Works, Div. Murray Corp., 14 Hayward St., Quincy 71, Mass.
Cleveland Steel Products Corp., 16025 Brookpark Rd., Cleveland 35, Ohio.
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.
Detroit Bevel Gear Co., 8130 Jos. Campeau Ave., Detroit 11, Mich.
Detroit Universal Div., Chrysler Corp., 6455 Kingsley Ave., Dearborn, Mich.
Gear Grinding Machine Co., 3901 Christopher Ave., Detroit 11, Mich.
Imco Mfg. & Sales Co., 10 E. Lafayette Ave., Baltimore 2, Md.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
Mechanics Universal Joint Div., Borg-Warner Corp., 2030 Harrison Ave., Rockford, Ill.
Merit Products Co., 121 W. Florence St., Los Angeles 3, Calif.
Morse Chain Co., Ithaca, N. Y.
Motor Master Products Corp., P. O. Box 96, Defiance, Ohio.
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill.
Muncie Parts Mfg. Co., 2601 S. Jefferson, Muncie, Ind.
Neapco Products, Inc., South & Cross Sts., Pottstown, Pa.
New Process Gear Div. Chrysler Corp., 500 Plum St., Syracuse, N. Y.
Parts Mfg. Co., 311 W. 66th St., N. Y. 23, N. Y.
Precision Universal Joint Corp., 615 S. California Ave., Chicago 12, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Rockwell-Standard Corp., Universal Joint Div., 1 Glass St., Allegan, Mich.
Root Co., B. M., Prospect & Sherman Sts., York, Pa.
Saginaw Steering Gear Div., General Motors Corp., 3900 Holland Rd., Saginaw, Mich.
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.
Stow Mfg. Co., 445 State St., Binghamton, N. Y.
Western Automotive Co., 2300 S. Parkway Chicago 16, Ill.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.
Williams Engineering Corp., 224 Park Ave., Baltimore, Md.

**UPPER CYLINDER LUBRICANTS, See Oil.**
**VALVE CLEANING TOOLS, See Tools, Valve Upper Cylinder Guide Cleaning**
**VALVE GRINDING COMPOUND, See Compounds, Valve Grinding**
**VALVE GRINDING HAND, See Tools, Valve Grinding and Lapping**
**VALVE GUIDES, See Guides, Valve**
**VALVE GUIDE INSTALLING AND REMOVING TOOLS, See Tools, Valve Guide Installing and Removing**
**VALVE REFACERS, See Refacers, Valve**
**VALVE SEAT GRINDERS, See Grinders, Valve Seat**
**VALVE SEAT INSERT, See Seats, Valve**
**VALVE SEAT INSTALLING, See Tools, Valve Seat Installing**
**VALVE SPRING TESTERS, See Testers, Valve and Clutch Spring**
**VALVE TOOLS, See Tools, Valve**

**VALVES, Air Brake**

Air Brake Accessories Inc., 250 N. Western Ave., Chicago 12, Ill. (Breakaway.)
Aircraft Products Div., Manning, Maxwell & Moore, Shelter Rock Lane, Danbury, Conn.
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Berg Mfg. & Sales Co., 1712 S. Michigan Blvd., Chicago 16, Ill. (Breakaway.)
George Mfg. Co., 10 Harvey St., Philadelphia 44, Pa. (Automatic.)
Midland-Ross Corp., Owosso Div., 490 S. Chestnut St., Owosso, Mich.
Power Brake Equipment Co., 1632 S. E. 11th St., Portland 14, Ore.
Robinson Engineering & Sales Co., 16550 Wyoming Ave., Detroit 21, Mich.
Seale Inc., Homer T., 13530 Nelson Ave., City of Industry, Calif. (Breakaway.)
Sweetland Corp., 940 N. Fair Oaks Ave., Pasadena, Calif. (For trucks, trailers, and buses.)
Talco Engrg. Co., 2685 State St., Hamden, Conn. (Breakaway.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

**VALVES, Air Tank Drain**

Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.
Expello Sales Division, 13341 Livernois Ave., Detroit 38, Mich.
George Mfg. Co., 10 Harvey St., Philadelphia 44, Pa.
Hamilton Co., L. L., 23 N. W. 10th St., Oklahoma City, Okla. (For brakes and compressors.)
Master Equipment Corp., P. O. Box 55, Dayton 1, Ohio. (Automatic.)
Monroe Standard, Inc., Wyandot Bldg., Galion, Ohio.
National Pneumatic Co., 125 Amory St., Boston 19, Mass.
Power Brake Parts Mfg. Co., 3435 S. Racine Ave., Chicago 8, Ill. (Truck, trailer and bus.)
Quincy Compressor Co., 217 Maine St., Quincy, Ill.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Wilkerson Corp., 1601 W. Girard Ave., Englewood, Colo.

# You Just Can't Beat STEEL

***BE PREPARED . . .***
***CARRY A SET IN EVERY TRUCK***

• When rubber slips . . . steel grips. Tests prove WEED V-BARS best on ice or snow. They stop you shorter, straighter, safer . . . provide the traction that keeps you rolling all winter long.

WEED V-BARS last longer . . . give you more traction you can trust for every dollar you invest.

***for safety, performance, economy . . .***
***insist on***

# WEED V-BAR TIRE CHAINS

*In Business for Your Safety*

**ACCO**

**AMERICAN CHAIN DIVISION**
**AMERICAN CHAIN & CABLE**

TRADE MARK

Genuine Weed Chains have red side chain fasteners, silver-grey side chains, brass plated cross chains

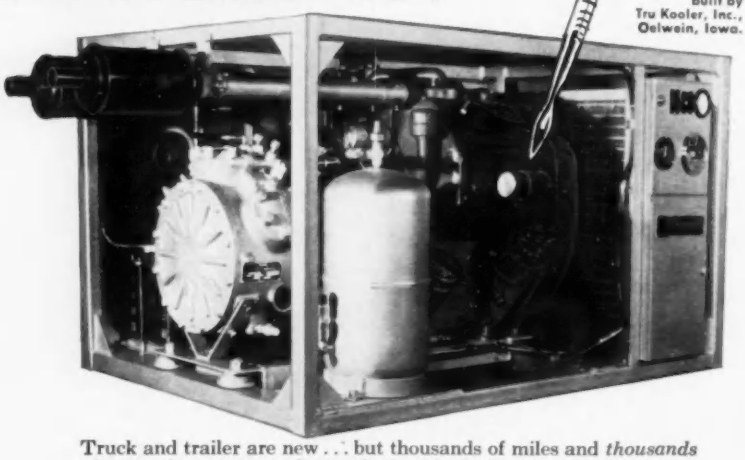
York, Pa., Boston, Chicago, Denver, Houston, Los Angeles, New York, Philadelphia, Pittsburgh, Portland, Ore., San Francisco, Bridgeport, Conn.

**VALVES, Engine**

Aluminum Industries, Inc., 3670 Werk Rd., Cincinnati 11, Ohio.
**American Hammered Automotive Replacement Div. of Sealed Power Corp., Accuralite Div., 2001 Sanford St., Muskegon, Mich.**
Andrews Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.
Eaton Mfg. Co., Valve Div., Battle Creek, Mich.
**Elgin Machine Works, 412 N. State St., Elgin, Ill.**
Ertel Products Co., Repl. Div. Ertel Mfg. Corp., 1402 E. 20th St., Indianapolis, Ind.
Parts Mfg. Co., 311 W. 66th St., New York 22, N. Y.
Parts Processing Corp., 1499 E. Michigan Ave., **Battle Creek, Mich. (For trucks and buses.)**
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.
Remco Products Corp., State & Hay Sts., York, Pa.
**Rich Mfg. Co., 96 N. Division St., Battle Creek, Mich.**
**Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.**
Thompson Products, Inc., **23555 Euclid Ave., Cleveland 17, Ohio.**
Toledo Steel Products, Div. Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio.

and a

# WISCONSIN ENGINE POWERS IT!



Wisconsin-powered refrigeration unit built by Tru Kooler, Inc., Oelwein, Iowa.

Truck and trailer are new . . . but thousands of miles and *thousands of hours from now* . . . the truck should still be going strong and so should the Wisconsin Heavy-Duty Air-Cooled Engine powering its refrigeration unit. We believe that feature for rugged feature, no competitive engine in the 3 to 56 hp. field is built to last as long as a Wisconsin Engine. Get the "feature facts" about these great engines. You'll see what we mean. Write for bulletin S-223 describing all single-cylinder, 2-cylinder and V-type 4-cylinder models.

***More than 2,000 service stations, coast to coast . . . several near you.***

MOST H.P. HOURS

**WISCONSIN MOTOR CORPORATION**

*World's Largest Builders of Heavy-Duty Air-Cooled Engines*

MILWAUKEE 46, WISCONSIN


**VALVES, Gasoline Tank**

Anderson Brass Co., 100 S. Campbell **Ave., Detroit 9, Mich.**
Betts Machine Co., 1800 Pennsylvania Ave., **W., Warren, Pa.**
**Buckeye Iron & Brass Works, 324 E. Third St., Dayton 1, Ohio.**
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill.
**Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.**
New Products Corp., 3636 Oakton St., Skokie, Ill.
Skinner Electric Valve Div. Skinner Chuck Co., Edgewood Ave., New Britain, Conn.
**Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.**

**VALVES, Safety or Emergency**

**(For safeguarding contents of tanks)**

Aircraft Products Div., Manning, Maxwell & Moore, Shelter Rock Lane, Danbury, Conn.
Betts Machine Co., 1800 Pennsylvania Ave., **W., Warren, Pa.**
**McDonald Mfg. Co., A. Y., 12th & Pine Sts., Dubuque, Iowa.**
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.
**Norgren Co., C. A., 3400 S. Elati St., Englewood, Calif.**
Philadelphia Valve Co., Aramingo Ave. & Ontario St., Philadelphia 34, Pa.
Robinson Engineering & Sales Co., 16550 Wyoming Ave., Detroit 21, Mich.
Shand & Jurs Co., 2600 Eighth St., Berkeley **10, Calif. (Truck Tank.)**

**VALVE SPRING INSERTS**

**(Advertiser only)**

Silver Seal Products Co., 1455 Fort St., Lincoln Park, Mich.

**VALVE TAPPETS. See Tappets, Valve**

**VALVES, Two-Way, Three-Way and Four-Way, Air**

Allen Co., A. K., 255 E. Second St., Mineola, N. Y.
American Brass Co., 100 S. Campbell Ave., Detroit 9, Mich.
**Anderson Brass Co., 100 S. Campbell Ave., Detroit 9, Mich.**
**Betts Machine Co., 1800 Pennsylvania Ave. W., Warren, Pa.**
Branick Mfg. Co., 2600 Third Ave. N., Fargo, N. D.
**Buckeye Iron & Brass Works, 324 E. Third St., Dayton 1, Ohio.**
Hannifin Co., 615-D S. Wolf Rd., Des Plaines, **Ill.**
**Hunt & Son, C. B., 1913 E. Pershing St., Salem, Ohio.**
Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill. (Tank.)
**Keller Tool Div., Gardner Denver Co., 1338 Fulton St., Grand Haven, Mich.**
**Logansport Machine Co., Center Ave., Logansport, Ind.**
**Ruggles-Klingeman Mfg. Co., Foster Court, Salem, Mass. (Electrically operated.)**
**S-P Mfg. Corp., 30201 Aurora Rd., Solon, Ohio. (Four-way.)**

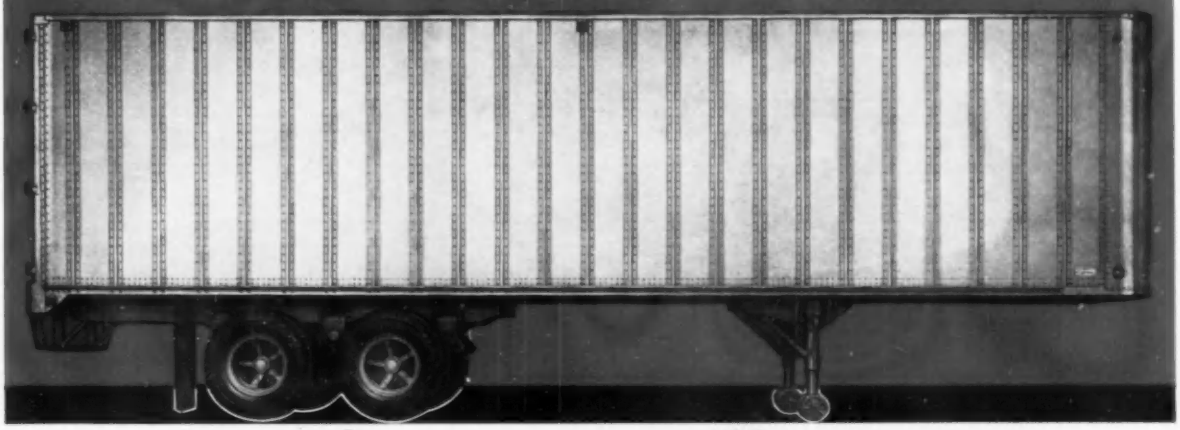
**VALVES, Tire**

**(See also Caps, Tire Valve)**

Acme Air Appliance Co., 205 Newman St., Hackensack, N. J.
**Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.**
Carlan Instruments Co., 1375 Park Ave., Cranston 9, R. I. (Pressure equalizer for dual tires.)
**Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.**
**Druge Bros. Mfg. Co., 888-92nd Ave., Oakland 3, Calif. (Sole distributors Tru-Flate Inc., 888-92nd Ave., Oakland 3, Calif.)**
Goodrich Tire Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio.

# HIGH-CUBE HAULERS . . .

# *here's your trailer!*

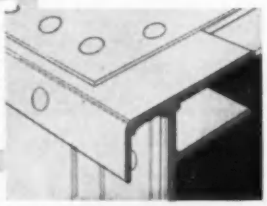


## THE NEW HIGHWAY *all-aluminum* SUPER-ECONOVAN

**higher!** FULL 97" INSIDE!

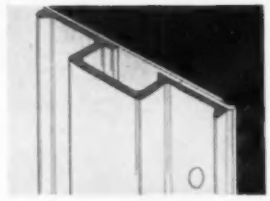
**wider!** FULL 94" INSIDE!

Highway's *completely* new maximum-cubage SUPER-ECONO-VAN is the finest dry freight trailer ever built. You can load to the skin because the inside is smooth and clean — no sharp edges. Unrestricted selection of optional liners available if added interior protection is wanted. Aluminum panels are stress-riveted to over-size extruded aluminum stakes 16" on center. If you want maximum cubage PLUS the ultimate in strength and light weight . . *here's your trailer!*



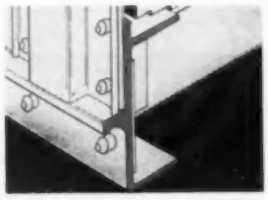
***new***

extruded aluminum cap rail and roof bows, plus special watertight seals! Trouble-free! Eliminates tree-rub damage and costly maintenance.



***new***

extruded aluminum stakes, 16" on center. Thick .064 heat-treated alloy aluminum panels are double-lapped and stress-riveted. SMOOTH INSIDE!



***new***

extruded aluminum rub rail and tee-channel shape cross bearers for added floor support and maximum strength.

**HIGHWAY TRAILER COMPANY**

**Headquarters: Edgerton, Wisconsin**

Manufacturers of: Commercial Trailers • Trailerized Tanks and Dry-Bulk Haulers • Cargo Containers — Land, Sea and Air • Public Utility Bodies • Earth-Boring Machines • Pole and Cable Reel Trailers • Winches • Power Take-offs • Service Accessories

SALES AND SERVICE IN PRINCIPAL CITIES

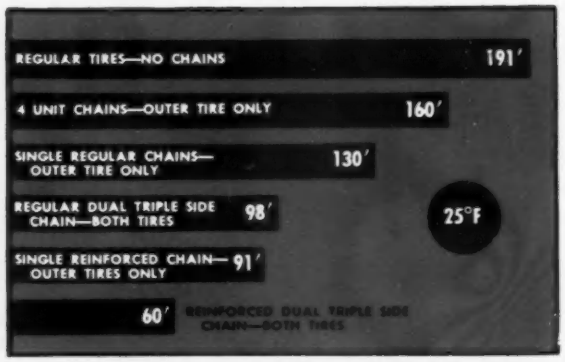
HIGHWAY®

# YOUR PROFITS DEPEND ON SAFETY...AND CAMPBELL CHAINS

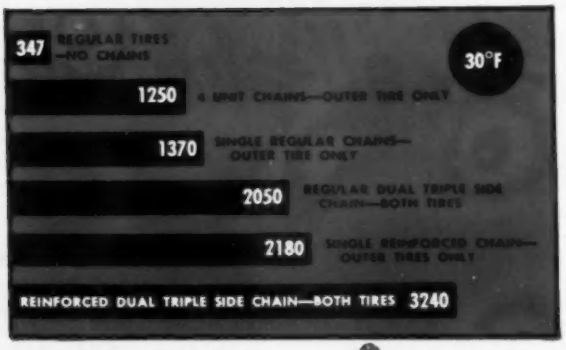
This winter keep *your* fleet on the road ...running safely and profitably...with Campbell Lug-Reinforced Tire Chains.

Read the results of Truck Tests by the Committee on Winter Driving Hazards of the National Safety Council:

*Average Braking Distances on Lake Ice from 20 MPH*




*Draw Bar Pull in Pounds on Lake Ice*




**CAMPBELL TIRE CHAINS FOR EVERY VEHICLE... EVERY TYPE OF SERVICE:**

- ***Lug-Reinforced*** **for maximum traction and wear.**
- ***Mud Service*** **for off-the-road.**
- ***Highway Service*** **for general use.**

Before the snow flies, get ready to keep your fleet rolling. Ask your jobber for complete information on Campbell Chains. Or write direct, if you prefer.

CAMPBELL CHAIN

**CAMPBELL CHAIN** *Company*

York, Pa.—W. Burlington, Iowa

E. Cambridge, Mass., Chicago, Ill., Portland, Ore., Seattle, Wash. Los Angeles, Sacramento, San Francisco, Calif.


## *vehicle signs to vises* • • •

**VALVES—continued**

Patch Rubber Co., P. O. Box 933, Akron 9, Ohio.
Rite-Way Products Co., 39 W. E. H. Crump Blvd., Memphis 2, Tenn.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.

**VEHICLE SIGNS**

(See also Decalcomanias)

Ward's Trucksign Transfers, 8504 Lyndon Ave., Detroit 38, Mich.

**VEHICLE, Traction Sanders**

(See Grit, Vehicle Traction)

**VENTILATORS, Bus and Truck**

Electric Service Works, Delta Star Electric Div., H. K. Porter Co., 17th & Cambria Sts., Philadelphia 32, Pa. (Bus.)
Evans Products Co., 13101 Eckles Rd., Plymouth, Mich. (Bus and truck cab.)
Service Products Corp., 201 S. Rural St., Indianapolis 1 Ind. (Bus.)

**VENTILATORS, Crankcase**

AC The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.
Donaldson Co., 666 Pelham Blvd., St. Paul 14, Minn.
Fram Corp., Providence 16, R. I.
Monarch Tool & Machinery Co., 3235 S. Racine Ave., Chicago 8, Ill.
Oildex Corp., 418 E. Second St., Tulsa, Okla.
Ryder Mfg. Co., 220 N. Ada St. Chicago 7, Ill.

**VENTILATOR, Exhaust Manifold**

Flint Corp., 1323 N. Water St., Milwaukee 2, Wis.

**VENTILATORS, Roof**

Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio. (Bus.)
Evans Products Co., 13101 Eckles Rd., Plymouth, Mich. (Power driven for trucks.)
H & P Die & Stamping Co., 13945 Trishett Rd., Cleveland 11, Ohio. (For bus, truck and trailer.)
Metalcraft Mfg. Co., 1202 E. 23rd St., Indianapolis 4, Ind. (For fire trucks, school buses, tractors and army trucks.)

**VENTS, Tank Body**

Buckeye Iron & Brass Works, 324 E. Third St., Dayton 1, Ohio.
McDonald Mfg. Co., A. Y., 12th & Pine Sts., Dubuque, Iowa.
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.
Philadelphia Valve Co., Aramingo Ave. & Ontario St., Philadelphia 34, Pa.
Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill.

**VISCOSIMETERS**

Bristol Co., Waterbury 20, Conn.
Precision Scientific Co., 3737 W. Cortland St., Chicago 47, Ill.
Visco-Meter Corp., 315 Grote St., Buffalo 7, N. Y.

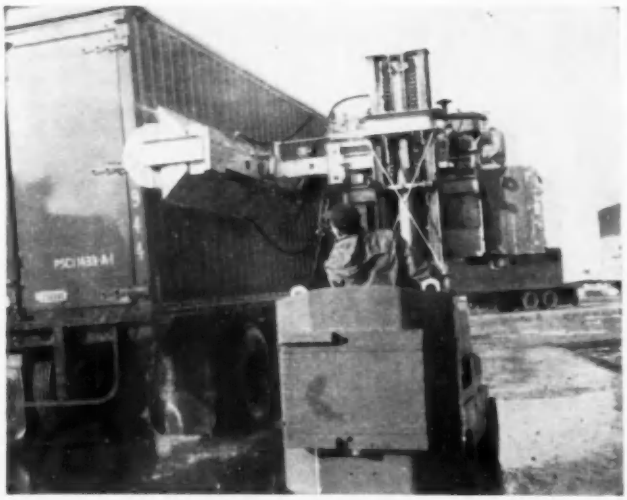
**VISES, Piston**

Groove-Rite Tool Co., 40300 Grand River Ave., Novi, Mich.
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.
Lempco Products Inc., 5490 Dunham Rd., Bedford, Ohio.
Production Devices, Inc., Davis St., Whitehall, N. Y. (Pneumatic or hydraulic.)
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

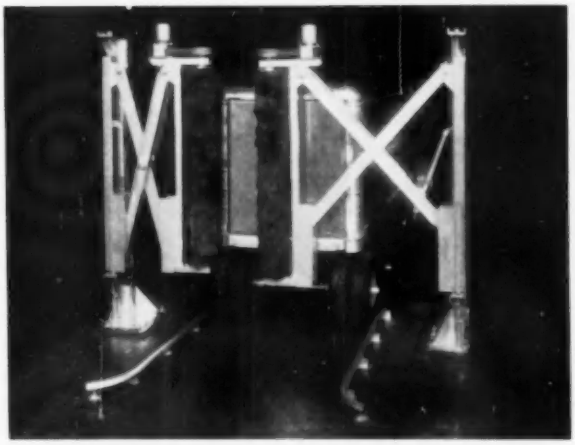
# TRUCK WASHERS STATIONARY and PORTABLE

BLACKHALL Stationary Van Washer, spring or air operated. Available in two or four brush design.

New **low priced** Junior Wilson Convertible Washer for washing vertical and/or horizontal ribbed trailers. Four foot brush can be swivelled to either vertical or horizontal position.



HEAVY DUTY WILSON CONVERTIBLE WASHER for washing vertical and/or horizontal ribbed trailers. Nine foot brush can be swivelled to either vertical or horizontal position.



NEW Automatic Front, Side and Back End Trailer Washer.

MANUFACTURED EXCLUSIVELY BY

ASK FOR BULLETIN No. 107

## ROSS AND WHITE COMPANY.

CHICAGO DAILY NEWS BUILDING, CHICAGO

**VISES, Piston Pin**

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Lempco Products Inc., 5490 Dunham Rd., Bedford, Ohio.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Sunnen Products, Co., 7910 Manchester Ave., St. Louis 17, Mo.

**VULCANIZERS, Portable**

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y. (Electric, tube.)
Bishman Mfg. Co., Osseo, Minn. (Tube.)
Bowes "Seal Fast" Corp., 5902 E. 34th St., Indianapolis 18, Ind. (Electric tire.)
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn. (Non-electric.)
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio. (Electrical, tube.)
Egan Mfg. Co., H. B., 425 W. Main St., Muskogee, Okla.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.
Speaker Corp., J. W., 3059 W. Weil St., Milwaukee 12, Wis. (Electric, tire and tube.)

**VULCANIZERS, Shop**

Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Cal. (Electric and steam tube.)
Big Four Industries Inc., 5938 Carthage Court, Cincinnati, Ohio. (For tubeless tires.)
Biggs Boiler Works Co., 1007 Bank St., Akron, Ohio. (Steam tube.)
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn. (Electric.)
Center Line Mfg. Co., 2418 McCormick St., Wichita, Kans. (Tube.)
Heintz & Co., James C., 3738 W. 143rd St., Cleveland 11, Ohio. (Tube.)
Shaler Co., Waupum, Wis. (Tire.)
Western States Mfg. Co., 811 Main St., Sioux City, Iowa. (Electric.)

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**WASHERS (Fountain Brushes and Mops)**

Flour City Brush Co., 1501 Fifth Ave., S., Minneapolis 15, Minn. (Brushes.)
Fuller Brush Co., Industrial Div., Fuller Park, Hartford 15, Conn. (Brushes.)
K. C. Fountain Brush Mfg. Co., 3718 Main St., Kansas City, Mo. (Brushes.)
Kleen-Mor Mfg. Co., P. O. Box 8531, Jackson, Miss. (Cotton mop.)
Laitner Brush Co., 2000 Brooklyn Ave., Detroit 26, Mich. (Brushes.)
Master Specialty Co., 3725 Monitor Ave., Minneapolis 26, Minn. (Revolving brushes and injector for liquid detergent brushes.)
Melaire Dist. Co., 11 W. 42nd St., New York, N. Y.
Milwaukee Brush Mfg. Co., 2236 N. 30th St., Milwaukee 45, Wis. (Brushes.)
Milwaukee Dustless Brush Co., 530 N. 22nd St., Milwaukee 3, Wis.
Osrow Products Co., Hazel St., Glen Cove, N. Y. (Brushes.)
Pacific Coast Brush Co., 1509 Santa Fe Ave., Los Angeles 21, Calif. (Brushes.)
Ransom Brush Co., 1051 W. Division St., Chicago 22, Ill. (Brushes.)
Rapids Equipment Co., B. Ave. & Sixth St., N. W., Cedar Rapids, Iowa. (Brushes; sole distributors, Rapids Products Co., 220 Sixth St., N. W., Cedar Rapids, Iowa.)
Tucker Mfg. Co., 112 Fourth Ave., S. E., Cedar Rapids, Iowa. (Brushes with telescopic handles.)
Wilson Inc., K. R., Arcade, N. Y.

**WASHERS, Metal Parts**

Acoustica Associates Inc., Shore Rd., Glenwood Landing, New York. (Ultrasonic.)
Aeroil Products Co., 69 Wesley St., South Hackensack, N. J.
A.L.C. Co., 646 Oak St., Medina, Ohio
Alvey-Ferguson Co., 3131 Disney St., Oakley, Cincinnati, 9, Ohio.
Bacon Vulcanizer Mfg. Co., 1295 67th St., Oakland 8, Calif.
Barrett Co., Leon J., 1477 Grafton St., Worcester, Mass. (Centrifugal.)
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Blakeslee & Co., G. S., 1844 S. Laramie Ave., Cicero, Ill.
Cincinnati Cleaning & Finishing Machinery Co., 317 Hecla St., Ironton, Ohio.
Circo Equipment Co., 120 Central Ave., Clark (Rahway), N. J.
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.
Drying Systems, Inc., 1810½ Foster Ave., Chicago 40, Ill.
Eclipse Fuel Engineering Co., 1111 Buchanan St., Rockford, Ill
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Graymills Corp., 3705 N. Lincoln Ave., Chicago 13, Ill.
Hanson-Van Winkle-Munning Co., Matawan, N. J.
Industrial & Scientific Products, Div. Curtiss-Wright Corp., P. O. Box 270, Caldwell, N. J.
International Conveyor & Washer Corp., 652 E. Fort St., Detroit 26, Mich.
J. P. Mfg. Co., 330 E. Front St., Youngstown 3, Ohio.
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.
L & R Mfg. Co., 577 Elm St., Arlington, N. J.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Mahon Co., R. C., 6565 E. 8-Mile Rd., Detroit 34, Mich. (Combined belt conveyorized washer and dryer.)
Metalwash Machinery Corp., 901 North Ave., Elizabeth 4, N. J.
Newcomb-Detroit Co., 5741 Russell St., Detroit 11, Mich.

# MAC'S HOPPING MAD

an ordinary tire let him down

# but PETE'S SITTING PRETTY with

# U.S. ROYAL TRUCK TIRES

## fleet-proved against road delays!

Ask the big fleets . . . Cooper-Jarrett, Denver-Chicago, Watson Bros., for instance. Their records prove—beyond any question—that using U.S. Royals cuts down costly road delays, steps up on-time arrivals!

These great new 1958 tires are built with engineering advances competition just doesn't have. Advances like DOUBLE-STRENGTH NYLON, twice as strong as any other cord . . . SAFETY STEEL SHIELD®, invulnerable to tread cuts and ruptures.

Test a set of new U. S. Royals—call your U. S. Royal Dealer. And be sure to specify these fleet-proved tires on the next new equipment you buy!

U.S.Royal Tires

**U. S. ROYAL FLEETWAY®**—favorite for all-around highway performance

**U. S. ROYAL Super FLEETWAY**—extra tread for long-distance runs at lowest per-mile cost

**U. S. ROYAL FLEETMASTER®**—extra mileage *plus* extra traction—full premium tread depth

**United States Rubber**

Rockefeller Center, New York 20, N. Y.

In Canada: Dominion Rubber Co., Ltd.

BEFORE YOU MAKE A FLEET MODERNIZATION DECISION . . .

# LOOK A

## Because only White custom engineers its truly mod

### EARNING POWER

Maximum payloads because only White enables the operator to get the best weight distribution and functional advantages creatively engineered to exact operating conditions.

This 9000TD with sleeper cab boosts payloads on long haul operation for Wesson Oil and Snowdrift Sales Co., Memphis.

### FUEL ECONOMY

No other diesel can match the new Whites under toughest schedules, highest mileages and biggest payloads. Operator cost records prove the economy for all types of service—unmatched in the industry.

Eaton Metal Products Co., Billings, Mont., prefer the White 9000TD for bulky and heavy equipment hauls like this 50,000 gallon fuel storage tank.

Haggar Slack Co., Dallas, Tex., operate the 3400TD White Diesel with sleeper cab on high-mileage, long haul operation with "high cube" payloads.

### HIGH TRACTOR UTILIZATION

Today's high mileages and turn-around schedules call for the best in tractor features and units. You are sure of performance with White because only Whites will stand up under today's operating schedules, trip after trip.

**NO OTHER TRUCK CAN MATCH**

Cowles costs in

timeta

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THE

# K AT WHITE!

## ly modern tractor line to your exact operating needs

Cowles Chemical Company improved service to customers and cut transportation costs in chemical deliveries with the White 4400TD Diesel.

## LONGER LIFE

Higher mileages before engine overhaul—more miles between overhauls. And other White units hold up longer because of the sturdy construction and modern design that only White has.

Dugdale Packing Co., St. Joseph, Mo., delivers refrigerated meats coast-to-coast on timetable schedules. Their White fleet has compiled an amazing economy record.

## LOWER MAINTENANCE COST

Quality in every feature keeps the Whites rolling up the miles with minimum down time, year after year. Maintenance and inspection savings, too, because of the unequaled accessibility.

**THE WHITE MOTOR COMPANY • Cleveland 1, Ohio**

**White**

*for more than 55 years the greatest name in trucks*

***White Ruggedness and Dependability Plus Top Payloads and Fuel Economy Make the Big Difference in White Diesel Earning Power***

## THESE WHITE "King of the Highway" ADVANTAGES

*CONVERTIBLE*
*and 5,000 pounds lighter*

# NEW Brown Platform Trailer

Newest addition to the Brown trailer line is a Platform Trailer made of finest aluminum and high strength steel alloys. The 35-foot size weighs just 7,950 pounds. It replaces flatbeds weighing as much as 12,950 pounds. The 40-foot size has a similar weight advantage.

To assure all-around strength, durability and maximum stability, the frame members in both models are of welded high strength tensile steel "I" beam construction. Other standard features include cast aluminum stake pockets, cadmium plated rope hooks and tarp storage pockets. Tie-down rings or chain wells for battening down the load can be provided at a small extra cost.

Removable side racks with tarp bows are furnished with the Model P to permit fast, easy conversion to an opentop. Two men can make the change-over in just *15 minutes*. Racks are provided for front and rear, as well as sides—or the front bulkhead can be fixed to provide storage for racks. Racks are alclad aluminum structurally riveted to sturdy extruded aluminum stiffeners. Standard rack is 48″ wide, 72″ high and weighs only 44 pounds. (Other height panels are available on request.)

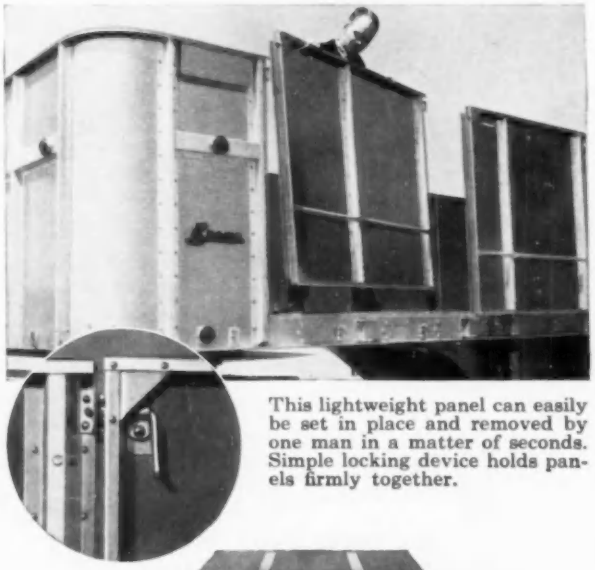
If money is a factor, remember we now have an extensive FINANCING program. Your local Brown Trailer Dealer can give you detailed information on Time-Payment for New and Used Equipment, as well as Leasing of New and Used Trailers. We suggest you contact your local dealer immediately—or write to:

Brown TRAILERS division CLARK® EQUIPMENT

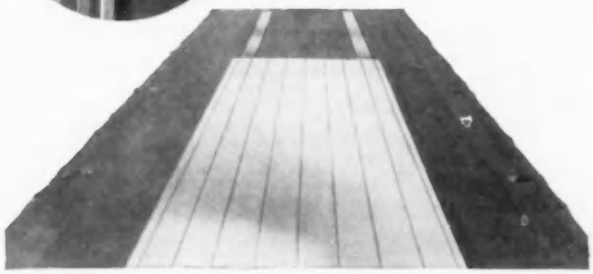
Brown is a trademark of Clark Equipment Company

**BROWN TRAILER DIVISION**
**CLARK EQUIPMENT COMPANY**
**Box 275 Elgin, Illinois**

Brown Model P Convertible Flat



This lightweight panel can easily be set in place and removed by one man in a matter of seconds. Simple locking device holds panels firmly together.



48 inch wide extruded aluminum center strip runs approximately three-fourths the length of the floor. Wood flooring is used at sides and front . . . 5/4 tongue and groove fir (in the West), 5/4 oak shiplap (in the East). Five rope ties are recessed in floor on each side.

# FWD Announces 40 New Road Maintenance Trucks

FOUR WHEEL Drive Auto Co., Clintonville, Wis., announces 40 new models in its snow removal and highway maintenance truck line. Divided into 10 basic series, the new trucks range from 26,000 to 55,000 lb GVW. Gasoline and diesel power plants are offered with 150 to 335 hp.

New models include (1) four series of single reduction axle trucks of 26,000, 32,000, 36,000 and 42,000 lb GVW (2) four series of double reduction axle trucks of 36,000, 40,000, 46,000 and 55,000 lb GVW and (3) two special-application series of single reduction axle trucks of 32,000 pounds GVW. Each series has either four or six truck models except the two special application series with one model each.

**The single reduction axle** trucks are equipped with engines ranging from 150 to 240 hp. The double reduction axle trucks have engines of 180-335 hp.

One of the special-application snow removal trucks is the "Airporter," a 32,000-lb GVW truck with a 240-hp gasoline engine designed for high speed removal of snow from airports. The other is a 32,000-lb GVW 182-hp unit on which all four wheels steer. It is designed for use in areas where a tight turning radius is necessary.

**Special design feature of the** new snow removal trucks is elimination of front bumper, fender skirting and fender trim. This provides easy accessibility in mounting and servicing the snowplow. Headlights are mounted on top of the truck's cab to shine over the snowplow.

All of the new models are four-wheel-drive and are equipped with FWD's power-proportioning center differential. Frames are made of special heat treated alloy steel standard on FWD trucks.

The new trucks may be equipped with virtually every type of snow removal equipment now in use, including all types and makes of V-type, one-way blade and rotary snowplows says FWD. They also can be used for other highway maintenance work, such as grading and hauling materials and equipment.

**WASHERS—continued**

Peters-Dalton, Inc., 17924 Ryan Road, Detroit 12, Mich. (Combined belt conveyorized washer and dryer.)
Phillips Mfg. Co., 3475 Toughy Ave., Chicago 45, Ill.
Pioneer-Central Div. Eclipse-Pioneer Div., Bendix Aviation Corp., Davenport, Iowa.
Practical Mfg. Co., 2840 Fourth Ave., S., Minneapolis 8, Minn.
Protectoseal Co., 1920 W. Western Ave., Chicago 8, Ill.
Ransohoff Inc., N. 5th St. at Ford Blvd., Hamilton, Ohio.
Schmieg Industries, Inc., 29330 Sherwood St., Detroit, Mich.
Simplicity Engrg. Co., Durand 1, Mich.
Stevens Inc., Frederic B., 1800 18th St., Detroit 16, Mich.
Storm-Vulcan Inc., 2225 Burbank St., Dallas, Tex.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
U. S. Galvanizing & Plating Equipment Corp., 27-41 Heyward St., Brooklyn, N. Y.
Wilson, Inc., K. R., Arcade, N. Y.
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn.

**WASHERS, Vehicle**
**(Water, steam and compressed air)**

Acme Equipment Co., 505 Central Trust Bldg., Altoona, Pa.
Aeroil Products Co., 69 Wesley St., S. Hackensack, N. J. (Portable.)
Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.
Choldun Mfg. Corp., 331 East St., New Haven, Conn. (Automatic.)
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. (Steam.)
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. (Steam.)
Curtis Mfg. Co., Pneumatic Div., 1927 Kienlen Ave., St. Louis 20, Mo. (Hydraulic.)
Deming Co., 884 S. Broadway, Salem, Ohio.
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.
Friend Mfg. Co., East Ave., Gasport, N. Y.
General Equipment Div., Sterod Mfg. Co., 442 Frelinghuysen Ave., Newark 5, N. J.
Hardie Mfg. Co., Mechanic St., Hudson, Mich.
Hydro-Air Cleaning Systems, Inc., 14731 Miles Ave., Cleveland 28, Ohio.
Jetomatic, Inc., 150 Wakelle Ave., Ansonia, Conn. (Automatic.)
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif. (Steam.)
Malsbary Mfg. Co., 845 92nd Ave., Oakland 3, Calif. (Steam.)
Minit-Man Inc., 509 E. Ten Mile Rd., Royal Oak, Mich.
Moffatt Products Inc., 3124 Washington Ave., N., Minneapolis 11, Minn.
Oakite Products, Inc., 19 Rector St., New York 6, N. Y. (Including tank truck interiors.)
Ross & White Co., Chicago Daily News Bldg., Chicago 6, Ill. (Automatic.)
Southwest Pump Co., First & Center Sts., Bonham, Tex.
Supreme Equipment Corp., 12415 Euclid Ave., Cleveland 6, Ohio.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
Wayne Pump Co., Salisbury, Md. (Automatic.)
Weaver Mfg. Co., 2177 S. 9th St., Springfield, Ill. (Automatic.)
Wohlert Corp., 700 E. Grand River Ave., Lansing 5, Mich. (Automatic.)

**WASHERS, Windshield, Vacuum Operated**

Anderson Co., 1075 Grant St., Gary 40, Ind.
Santay Corp., 351 N. Crawford Ave., Chicago 24, Ill. (Foot controlled.)
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.

**WAX, See Polish, Body**

**WEATHER STRIPS**

Accurate Products, Inc., 135 N. Spring St., Indianapolis, Ind.
Atlantic India Rubber Works, Inc., 571 W. Polk St., Chicago 7, Ill.
Automotive Products Div., Crotty Corp., 39 E. Chicago Ave., Quincy, Mich.
Auto Vehicle Parts Co., 1032 Saratoga St., Newport 6, Ky.
Bridgeport Fabrics, Inc., 165 Holland Ave., Bridgeport 9, Conn. (Door.)
Brockton Stay Co., 24 Essex St., Haverhill, Mass.
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
Carter Co., George R., 630 Lycaste Ave., Detroit, Mich.
Chardon Rubber Co., Sixth & Washington Ave., Chardon, Ohio.
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn. (Windshield, window, door and trunk.)
G & C Products Co., Lindale Rd., Amelia, Ohio.
General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.
Goodrich Industrial Products Co., B. F., 500 S. Main St., Akron 18, Ohio.
Goodrich Co., Sponge Products Div., B. F., Howe Ave., Shelton, Conn.
Hamilton-Wade Co., 52 Haverhill St., Brockton 62, Mass.
Hope Webbing Co., Providence, R. I.
Industrial Rubber Goods Co., St. Joseph, Mich.
Inland Mfg. Div., General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
Johns-Manville Co., Dutch Brand Div., 7800 Woodlawn Ave., Chicago 16, Ill.
Johnson Rubber Co., Middlefield, Ohio.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.

**IMPERIAL Pressure Hose Cuts Inventory—Speeds Jobs!**

Imperial Non-Skive Rubber Covered, Cotton Covered and Freon Hose are all assembled with one line of reusable couplings! Simplifies servicing and stocking!

Imperial furnishes hose and couplings for a wide range of applications — hydraulic lines, oil, gasoline, air, water, refrigerant. Other types of hose include: Rubber Covered Rayon Braid, Rubber Covered Single Wire Braid, Rubber Covered Double Wire Braid. For working pressures: 250 to 5000 psi; operating temperatures: −40° to +275°F.

Hose Couplings and Adapters include 45° and 37° Flare, 30° P.T.T. and Pipe Thread.

*Ask for Bulletin 3040.*



Imperial offers a complete line of Male and Female Straight, Angle and Swivel Adapter Unions.

Imperial No. 384-F sawing vise for 3/16 to 1½" O.D. sizes. For sawing wire-braid pressure hose with minimum wear to hacksaw blade. Square, clean cuts. Special hose gripper.

**THE IMPERIAL BRASS MFG. CO.**
6300 W. Howard St., Dept. CCJ-118
Chicago 48, Ill.
In Canada: 18 Hook Ave., Toronto, Ont.

**IMPERIAL** — *Emblem of Quality*

Brass Fittings • Flexible Lines • Shut-Off Valves • Drum Faucets • Service Aids • Tubing Tools

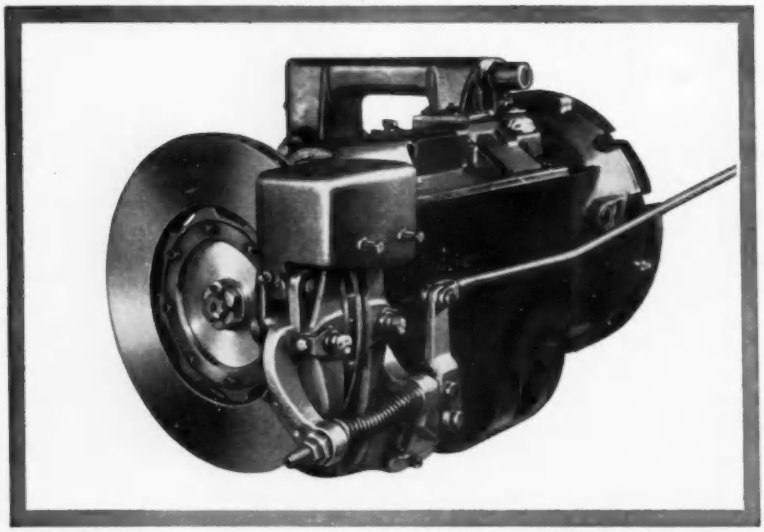
# KNOCK 50% OFF YOUR REPLACEMENTS

**with nylon cord truck tires.** Talk to truckers and they'll tell you: on a cost per mile basis, nylon cords leave the competition way behind. Tough, more durable, nylon cords not only clock more original mileage, but the stronger casing takes recap after recap for thousands of extra bonus miles. And down time due to cord failure is really *kept* down because nylon cords have greater resistance to heat failure, flex breaks, bruise damage, rot from moisture. Fleet records show the results: *thanks to nylon's longer mileage life, tire replacements are cut as much as 50%!* Today, The Chemstrand Corporation, one of the country's top nylon yarn suppliers, is working to make nylon for tire cord even stronger, more durable. Next time you're in the market for tires, remember: it costs you less to run a fleet with rugged nylon cords.

**Chemstrand® nylon**

THE CHEMSTRAND CORPORATION
GENERAL SALES OFFICES: 350 FIFTH AVE., NEW YORK 1, N. Y. • DISTRICT SALES OFFICES: 350 Fifth Ave., New York 1; 3½ Overwood Road, Akron, Ohio; 197 First Avenue, Needham Heights, Mass.; 129 West Trade Street, Charlotte, N. C. • PLANTS: CHEMSTRAND® NYLON—Pensacola, Fla.; ACRILAN® ACRYLIC FIBER—Decatur, Ala.

# You Get Positive Protection Against Runaway or Parking Accidents When You Specify TRU-STOP Brakes



TRU-STOP brakes operate directly on the drive shaft. This means that they are not only excellent parking brakes, but dependable emergency service brakes as well. There's no dangerous self-energizing. TRU-STOP brakes have the surplus capacity for repeated use as an auxiliary to service brakes.

## 100% Ventilation Minimizes Fading

Brake efficiency depends on ability to dissipate heat rapidly and so prevent fading. TRU-STOP brakes are 100% ventilated. Discs are exposed to air even while braking. The TRU-STOP ventilation system circulates air *between* the disc plates.

## Longer Life with Uniform Brake Pressure

The discs of TRU-STOP brakes are squeezed between the flat surfaces of the shoes. The brake lever operates both the front and rear lever arms simultaneously, and pressure is exerted on the center of each shoe. This puts the entire lining surface in contact, provides for even wear. TRU-STOP brake linings are *easy* to replace.

**FOR POSITIVE PROTECTION...**

***Specify* TRU-STOP BRAKES *on* ANY *Heavy-Duty Equipment that Requires Braking***

***WRITE* for Catalogs DH-33 and DH-530**

**Automotive and Aircraft Division**
**AMERICAN CHAIN & CABLE**

601 Stephenson Bldg., Detroit 2
2216 South Garfield Ave., Los Angeles 22 • 929 Connecticut Ave., Bridgeport 2, Conn.

ACCO
TRADE MARK


# *weather strips to welders* • •

**WEATHER STRIPS—continued**

**Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio.**
Kravex Mfg. Co., 634 Prospect Pl., Brooklyn, N. Y. (Door and trunk.)
**Lange Machine Works, Henry G., 156 N. May St., Chicago 7, Ill.**
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
**Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio. (Sponge rubber door.)**
Roberts Toledo Rubber Co., 4143 Monroe St., Toledo 13, Ohio.
**Schwartz Rubber Corp., 3708 Payne Ave., Cleveland 14, Ohio. (Trunk.)**
Schlegel Mfg. Co., 1555 Jefferson Rd., Rochester 23, N. Y.
**Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.**
**Union Welt Corp., 2727 W. Roscoe St., Chicago 18, Ill.**
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Western Felt Works, 4021 W. Ogden Ave., Chicago 23, Ill.

**WEATHER STRIP ADHESIVE**

Carborundum Co., Niagara Falls, N. Y.

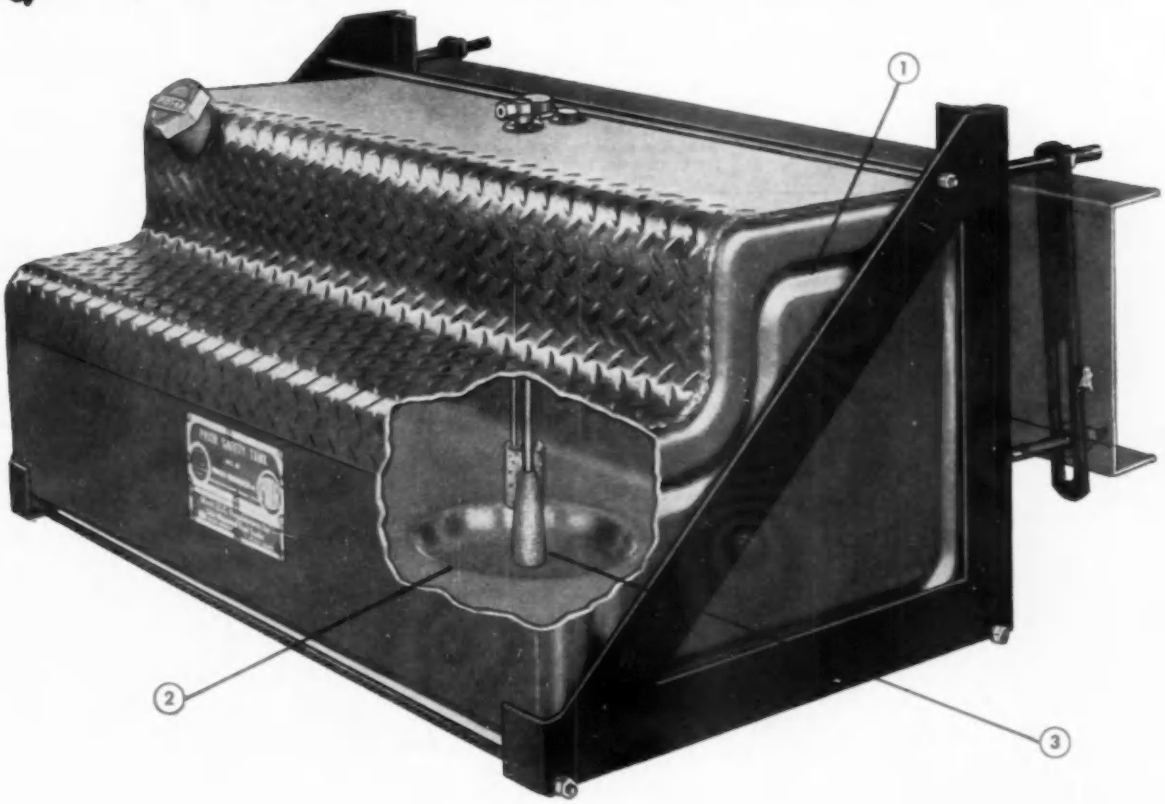
**WEIGHTS, Wheel Balancing**

Amplex Engrg. Co., 2510 Grand Ave., New Castle, Ind.
**Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.**
**Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.**
**Bender Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif.**
**Bennett-Feragen, 1408 Jerome St., Niles, Mich.**
Big Four Industries Inc., 5938 Carthage Court, Cincinnati, Ohio.
**Binder Equipment Co., J. H., 5450 Tweedy Blvd., South Gate, Calif.**
Hunter Products Co., Hunter Ave. & Ladue Rd., St. Louis 24, Mo.
**Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.** (Sole distributors to replacement trade Lempco Automotive Inc., 2953 E. 55th St., Cleveland 27, Ohio.)
**Lucas Mfg. Corp., 309 S. Union St., Kokomo, Ind.**
**Manbee Equip. Div., Bear Mfg. Co., P. O. Box 607, Rock Island, Ill.**
**Perfect Equipment Corp., 804 W. Morgan St., Kokomo, Ind.**
**Pouell Mfg. Co., 813 Burlington Ave., Logansport, Ind.**
**Snugl Wheel Weight Mfg. Co., Div. of Mid-Western Auto Parts, 824 E. Elm St., Kokomo, Ind.**
**Turner Mfg. Co., 404 W. Superior St., Kokomo 2, Ind.**
**Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.**
**Wheel Weights, Inc., 122 S. First St., Ann Arbor, Mich.**

**WELDERS and EQUIPMENT, Arc, Electric**

Agnew Machine Co., 121 S. Main St., Milford, Mich. (Automatic.)
**Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.**
Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
**Birdsell Mfg. Co., 750 San Antonio Rd., Palo Alto, Calif.**
**Couse Mfg. Inc., 300 Passaic St., Newark 4, N. J.** (Mobile.)
Forney Industries, 1820 La Porte Ave., Ft. Collins, Colo.
Guyan Machinery Co., P. O. Box 150, Logan, W. Va.
Harnischfeger Corp., Milwaukee 46, Wis.
**Hobart Bros. Co., Canal Locks Square, Troy 1, Ohio.**
Lee Co., K. O., Congress at First Ave., S. E., **Aberdeen, S. D.**
Lincoln Electric Co., 22801 St. Clair Ave., Cleveland 17, Ohio (Automatic and manual.)
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
**Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo. (Also combination bonder and arc welder.)**
**Metal & Thermit Corp., 100 E. 42nd St., New York 17, N. Y.**
**Mid-States Welder Mfg. Co., 6025 So. Ashland Ave., Chicago 36, Ill. (Also stabilizers.)**
**Miller Electric Mfg. Co., 718 S. Bounds St., Appleton, Wis.**

# Prior "L-STEP" SAFETY TANK




Prior Products announces two more outstanding new additions to the many safety and economy features they have introduced in Safety Fuel Tanks. (1) To increase the safety and strength of the "L-Step" Tank Prior Engineers designed special dies to emboss an impact-relieving structural rib as an integral part of the fully flanged tank heads. (2) Now all Prior "L-Step" Tanks are equipped with a SUMP in the bottom of the tank permitting full utilization of the entire fuel capacity of the tank. (3) The threat of entry of foreign particles into the fuel line has already been eliminated by the adoption of Monel Filter Tips on all Prior Safety Tanks.

**PRIOR PRODUCTS, INC.**

P. O. BOX 7608 • DALLAS, TEXAS

**WELDERS—continued**

Morton Mfg. Co., Broadway & Hoyt St., Muskegon Heights, Mich.
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill.
Precision Welder Mfg. Co., 2218 W. Lake St., Chicago 12, Ill.
Royal Arc Industries Inc., 425 Cedar St., Chillicothe, Ill.
Sight, Fred, Generator Co., West Alexandria, Ohio. (Automatic.)
Smith Corp., A. O., 27th & Hopkins Sts., Milwaukee 1, Wis.
Swift Ohio Corp., 17325 Lamont St., Detroit 12, Mich.
Taylor-Winfield Corp., 1052 Mahoning Ave., N. W., Warren, Ohio.
Trindl Products, Ltd., 1807 S. Clark St., Chicago 16, Ill. (Welding.)
US Electric Welder Corp., 1254 Dorr St., Toledo 7, Ohio.
Vickers Inc., Electric Products Div., 1815 Locust St., St. Louis 3, Mo.
Welduction Corp., 10230 Capital Ave., Oak Park 37, Mich.
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.

**WELDERS and EQUIPMENT, Oxy-Acetylene**

Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Dockson Co., C. H., 3839 Wabash Ave., Detroit 8, Mich. (Regulators.)
Harris Colorific Co., 5501 Cass Ave., N. W., Cleveland 2, Ohio.
Linde Co., 30 E. 42nd St., New York 17, N. Y.
Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa.
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn. (Portable acetylene generators.)
Modern Engineering Co., 3411 Pine Blvd., St. Louis 3, Mo.
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago, Ill.
National Welding Equipment Co., 218 Fremont St., San Francisco 5, Calif.
Sight Feed Generator Co., West Alexandria, Ohio. (Acetylene generators.)
Smith Welding Equipment Corp., 2633 Fourth St., S. E., Minneapolis 14, Minn.
Taylor-Winfield Corp., 1052 Mahoning Ave., N. W., Warren, Ohio.
Tolman Mfg. Co., 19 W. Third St. (South Boston), Boston 27, Mass.
Victor Equipment Co., 844 Folsom St., San Francisco 7, Calif.

**WELDING CABLE, See Cable, Welding**
**WELDING COMPOUNDS, See Compounds, Welding**
**WELDING HOSE, See Hose, Welding**
**WELDING RODS, See Rods, Welding**
**WHEEL ALIGNMENT EQUIPMENT, See Gages, Wheel and Axle Aligning**
**WHEEL BALANCING MACHINES, See Balancers, Wheel**

**WHEELS, Fifth**

American Steel Foundries, Hohman Ave. & Hoffman St., Hammond, Ind.
Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill. (Hydraulic.)
Bound Brook Safety Equipment Co., 232 W. Union Ave., Bound Brook, N. J.
Carnegie Body Co., 6115 Carnegie Ave., Cleveland 3, Ohio (Distributor.)
Cemco Industries, Inc., Galion, Ohio. (Elevating.)
Dayton Steel Foundry Co., P. O. Box 1022, Dayton 1, Ohio.
Fontaine Truck Equipment Co., 1232 N. 37th Place, Birmingham, Ala.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.
Holland Hitch Co., 430 W. 18th St., Holland, Mich.
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif.
Kingham Trailer Co., 15th & Hill Sts., Louisville 10, Ky.
Pollard Co., C. E., 14571 Schaefer Rd., Detroit 27, Mich. (Hydraulic elevating.)
Silver Eagle Co., 5885 N.W. St. Helens Rd., Portland 10, Ore.
Snyder Tank Corp., 3773 Lake Shore Blvd., (P. O. Box 14), Buffalo 5, N. Y.
Weber Trailer & Mfg. Co., 8400 E. Slauson Ave., Rivera, Calif. (Mailing address P. O. Box 2473, Los Angeles 54, Calif.)
Western Unit Corp., 17747 East Railroad St., City of Industries, Calif.

**WHEELS, Trailer**

Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa.
Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich.
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton 1, Ohio.
Differential Dual Wheel Div., Anderson-Bolling Mfg. Co., Grand Haven, Mich.
Erie Malleable Iron Co. (Automotive Wheel Div.), 609 W. 12th St., Erie, Pa. (Single and dual pneumatic, malleable iron.)
French & Hecht, Div. Kelsey-Hayes Co., Third & Farnam St., Davenport, Iowa.
Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill. (Cast steel.)
Homan & Co., 511 Reading Rd., Cincinnati 15, Ohio. (Aluminum and steel.)
Kelsey-Hayes Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 735 E. Saginaw St., Lansing 3, Mich. (Disc steel.)
Permold Co., 820 W. Liberty St., Medina, Ohio. (Aluminum.)

**at last!**

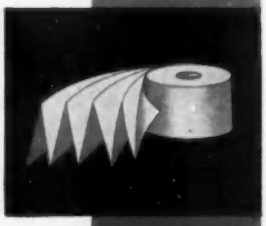
**a low cost, small size large area filter**

Solve your installation problem with just one ROOSA MASTER fuel filter assembly with paper element filter. Only 6" high, 3½" in diameter, it takes less space on your engine. No tools required, no fuel lines to disconnect and only 1" clearance needed when changing element . . . and it costs less than throw-away filter assemblies. Write for information.

HMS ROOSA MASTER

makes good diesels better

HARTFORD MACHINE SCREW CO., HARTFORD 2, CONN.
DIVISION OF STANDARD SCREW COMPANY



Unique spiral paper construction provides 560 square inches filtering area.

Member

YOU CAN DEPEND ON THE DIESEL THAT DEPENDS ON ROOSA MASTER

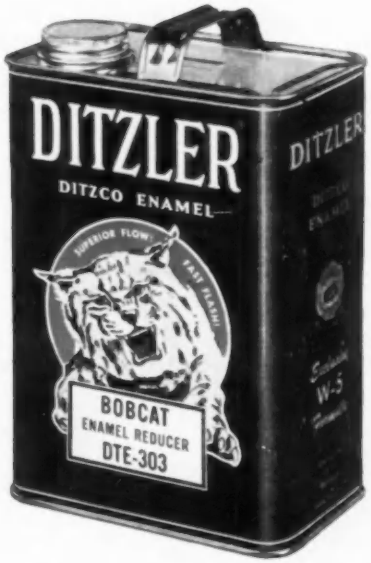
# For Fast, Easy Spraying

# BOBCAT

## All-Weather Enamel Reducer

WITH EXCLUSIVE **W-5** FORMULATION

## DTE-303




**Assures faster drying and better flowout in all temperatures**

**Ditzler's new** BOBCAT DTE-303 All-Weather Enamel Reducer, using the exclusive W-5 formulation, gives you uniform control of spraying enamel in damp, cold weather as well as in dry, hot temperatures.

● **Enamels reduced** with this new material level out better, flow more smoothly and evenly and flash dry dust-free in 10 to 15 minutes. You can match colors more accurately as this new BOBCAT Reducer distributes metallic particles uniformly. Gloss is excellent, too. You'll find BOBCAT pleasant to work with as it has no characteristic thinner odor.

● **No matter** whether you use the double-coat spraying method or use a light tack coat followed with a heavier flow-coat, you'll find BOBCAT Reducer makes enamels easier to work with.

● **Try this new** BOBCAT Enamel Reducer on your next refinishing job and see for yourself how easy the enamel goes on and what a fine-looking job you get for your customer.

**Ditzler Color Division • Pittsburgh Plate Glass Company • Detroit 4, Michigan**

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Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio. (Spoke types.)
Differential Dual Wheel Div., Anderson-Bolling Mfg. Co., Grand Haven, Mich.
Eastern Malleable Iron Co., 112 Bridge St., Naugatuck, Conn.
Erie Malleable Iron Co., Automotive Wheel Div., 609 W. 12th St., Erie, Pa.
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill. (Cast steel.)

**WHEELS, Vehicle, Disc**

Aluminum Company of America, Pittsburgh 19, Pa.
Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa.
Differential Dual Wheel Div., Anderson-Bolling Mfg. Co., Grand Haven, Mich.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 701 E. Saginaw St., Lansing 3, Mich.

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Beebe Bros., 2724 Sixth Ave., S., Seattle 4, Wash. (Hand.)
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Foote Industries, 1010 S. Washington Ave., Lansing, Mich. (Hand.)
Fulton Co., 1912 S. 82nd St., Milwaukee 14, Wis. (Hand.)
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Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill. (Hand.)
M-B Corp., 1615 Wisconsin Ave., New Holstein, Wis. (Hand.)
Manley Div., American Chain & Cable Co., 1100 E. Princess St., York, Pa.
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Ramsey Winch Mfg. Co., Box 3035, 5531 E. Admiral Place, Tulsa 8, Okla.
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Sasgen Derrick Co., 3101 Grand Ave., Chicago 22, Ill.
Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y.
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, L. I., N. Y. (Power.)
Truck Engineering Co., 1285 W. 70th St., Cleveland 2, Ohio.
Tulsa Winch Div. of Vickers, Inc. 815 E. First St., Tulsa, Okla. (Power.)
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Watson Co., H. S., 1316 67th St., Emeryville, Calif. (Hand.)

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Delco Appliance Div. General Motors Corp., 391 Lyell Ave., Rochester 1, N. Y.
Electric Auto-Lite Co., Toledo 1, Ohio.
Electric Service Works, Delta Star Electric Div., H. K. Porter Co., 17th & Cambria Sts., Philadelphia 32, Pa.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Storm-King Products Co., 148-08 95th Ave., Jamaica 35, N. Y.

**WIPERS, Windshield, Vacuum**

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**WIRE, IGNITION, STARTING AND LIGHTING, See Cable, Ignition, Starting and Lighting**

**WRECKERS, See Cranes, Service Truck**

**WRENCHES, Portable Electric**

Albertson & Co., 3100 Lowell Ave., Sioux City 3, Iowa. (Impact.)
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York 17, N. Y. (Impact.)
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Millers Falls Co., Greenfield, Mass.
Remington Arms Co., 939 Barnum Ave., Bridgeport 2, Conn.
Snap-on Tools Corp., 8046 28th Ave., Kenosha, Wis.
SpeedWay Mfg. Co., 1421 Barnsdale Rd., La Grange Park, Ill. (Impact.)
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**You Can Build Better Value in your TRUCK BODIES**

with

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A well designed, ruggedly constructed body requires good hardware to fulfill its purpose.

Poor hardware wears unduly and breaks under stress—reflecting upon the ability and policies of the builder.

Fully realizing these truths Eberhard has always made products of quality—a fact that is fully appreciated by better builders in the industry.

You'll find everything you need in the Eberhard line, and you can install and recommend them with assurance that they "will not let you down".

*Write for the Catalog*

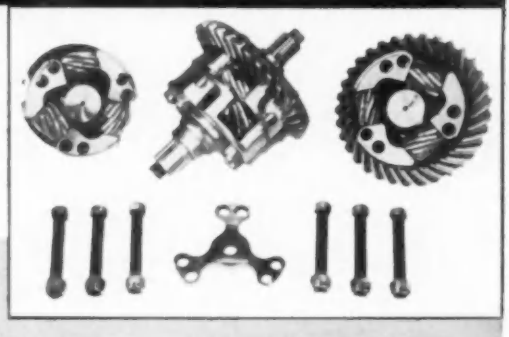
**EBERHARD MANUFACTURING COMPANY**
Evarts Ave. • Cleveland 4, Ohio
DIVISION OF THE EASTERN MALLEABLE IRON COMPANY

**LONGRUN**

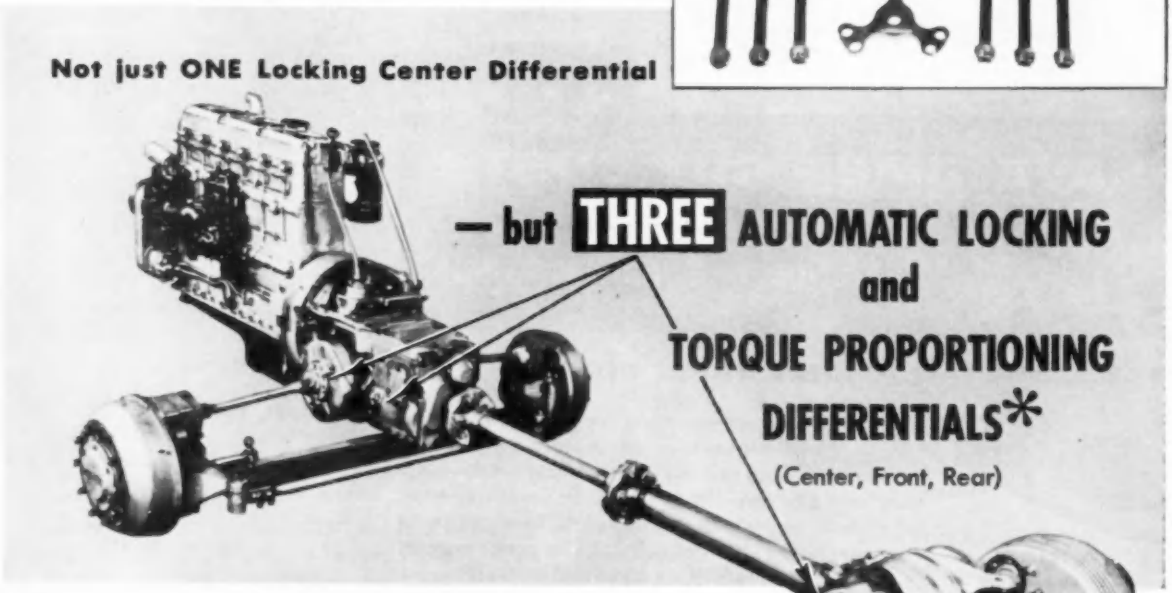
TRUCK BODY HARDWARE BY
**EBERHARD**
THE MOST COMPLETE LINE AVAILABLE

# WALTER *is First in* TRACTION!

## The Difference is in the DIFFERENTIALS!



**Not just ONE Locking Center Differential**



**— but THREE AUTOMATIC LOCKING and TORQUE PROPORTIONING DIFFERENTIALS***

(Center, Front, Rear)

*** Proportion torque to ALL FOUR WHEELS — not just two axles!**

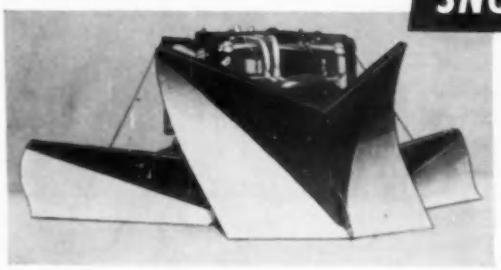
Only Walter has THREE differentials using the simple principle of worm gears to proportion torque to all FOUR wheels, front and rear, left and right. If one, two or even three wheels lose traction, the others immediately get proportionately greater power to continue pulling. There is no wheel spinning. Walter differential action is automatic, continuous, non-grabbing.

**WALTER**

**4-POINT POSITIVE DRIVE**

**SNOW FIGHTERS**

Walter Snow Fighters are rugged, without excess weight; provide more power per pound of GVW. They are compact, maneuverable, not clumsy or hard to handle. Their uncomplicated design uses fewer, but stronger parts to reduce trouble, simplify servicing.



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1001-19 Irving Ave.,
Ridgewood 27, Queens,
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**Aro Equipment Corp., Bryan, Ohio.**
**Buckeye Tools Corp., 5005 Springboro Pike,** Dayton 9, Ohio. (P. O. Box 966.)
**Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.**
**Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Texas.**
**Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.** (Impact.)
**Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.**
**Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio.** (Impact.)
**Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.**
Thor Power Tool Co., Prudential Bldg., Chicago 1, Ill.

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**Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.**
**Apco Mossberg Co., Lamb St., Attleboro, Mass.**
**Armstrong Bros. Tool Co., 5200 W. Armstrong Ave., Chicago 30, Ill.**
**C. & G. Wheel Puller Co., Scio, N. Y. (Preset.)**
Cedar Rapids Engineering Co., 902 17th St., N. E., Cedar Rapids, Iowa.
**Chicago Tool & Kit Mfg. Co., 230 N. Jefferson St., Chicago 6, Ill.**
**Cornwell Quality Tools Co., Mogadore, Ohio.**
**Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.**
**Fairmount Tool & Forging Inc., 10611 Quincy Ave., Cleveland 6, Ohio.**
**Hastings Mfg. Co., N. Hanover St., Hastings, Mich.**
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**Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.**
La Salle Tool Inc., 3840 E. Outer Drive, Detroit 34, Mich.
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**Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.**
**P & C Tool Co., Box 5926, Milwaukie, Ore.**
**Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.**
**Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill.**
**Richmont, Inc., 922 S. Myrtle Ave., Monrovia, Calif.**
**Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.**
**Sturtevant Co., P. A., Addison, Ill.**
**Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.**
**Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.**
Wilson Inc., K. R., Arcade, N. Y.

**WRENCHES, TIRE, See Tools, Tire**

**WRENCHES, Two-Speed Axle**

**Automotive Service Tools, Inc., Lansing, Mich.**

**WRIST PINS, See Pins, Piston**


**SAVE TIME - CUT COSTS**
with
Grote clearance and marker lamps

**SPEEDY INSTALLATION - RAPID BULB CHANGE**

C-260

The C-260 is a bright new streamlined cab light designed for the man who knows that time is money. Rapid installation time (no need to disassemble the lamp to install) and rapid bulb change time (less than 30 seconds) means money in the bank. Its heavy one piece zinc die-cast body will not rust or corrode, insuring longer lamp life. Available for mounting on flat or contoured surfaces. Overall length 8⅞"; 3¼" at greatest height and 2⅝" at greatest width. Available with either 6 or 12 volt 3 cp bulb.

S-200

Grote's all new armored clearance lamp—the S-200—features a new "pres-tite" snap-in lens, a real time saver for the maintenance man. Bulb replacement in less than 30 seconds—with no tools. Fresnel type plastic lens is weather resistant, fade proof and shatter proof. The heavy formed steel housing withstands shock and protects against lens breakage. Mounts on saturated felt pad, 4½" by 2". Base is finished in baked aluminum enamel—lens retainer clips cadmium plated and securely riveted to housing. Available in either 6 or 12 volt—2 or 3 cp bulb.

222

The 222 is the latest addition to the Grote Line of Clearance and Marker Lamps. This low cost surface mounting lamp is 2½" in diameter and is equipped with a saturated felt mounting pad. Prismatic twist-on lens is shatterproof and fade proof. Available with either 6 or 12 volt 2 cp bulb.

Sold Exclusively by leading manufacturers and jobbers throughout the United States and Canada. Write for complete information.

the Grote
MANUFACTURING COMPANY, INC.
Bellevue, Ky. • Opposite Cincinnati


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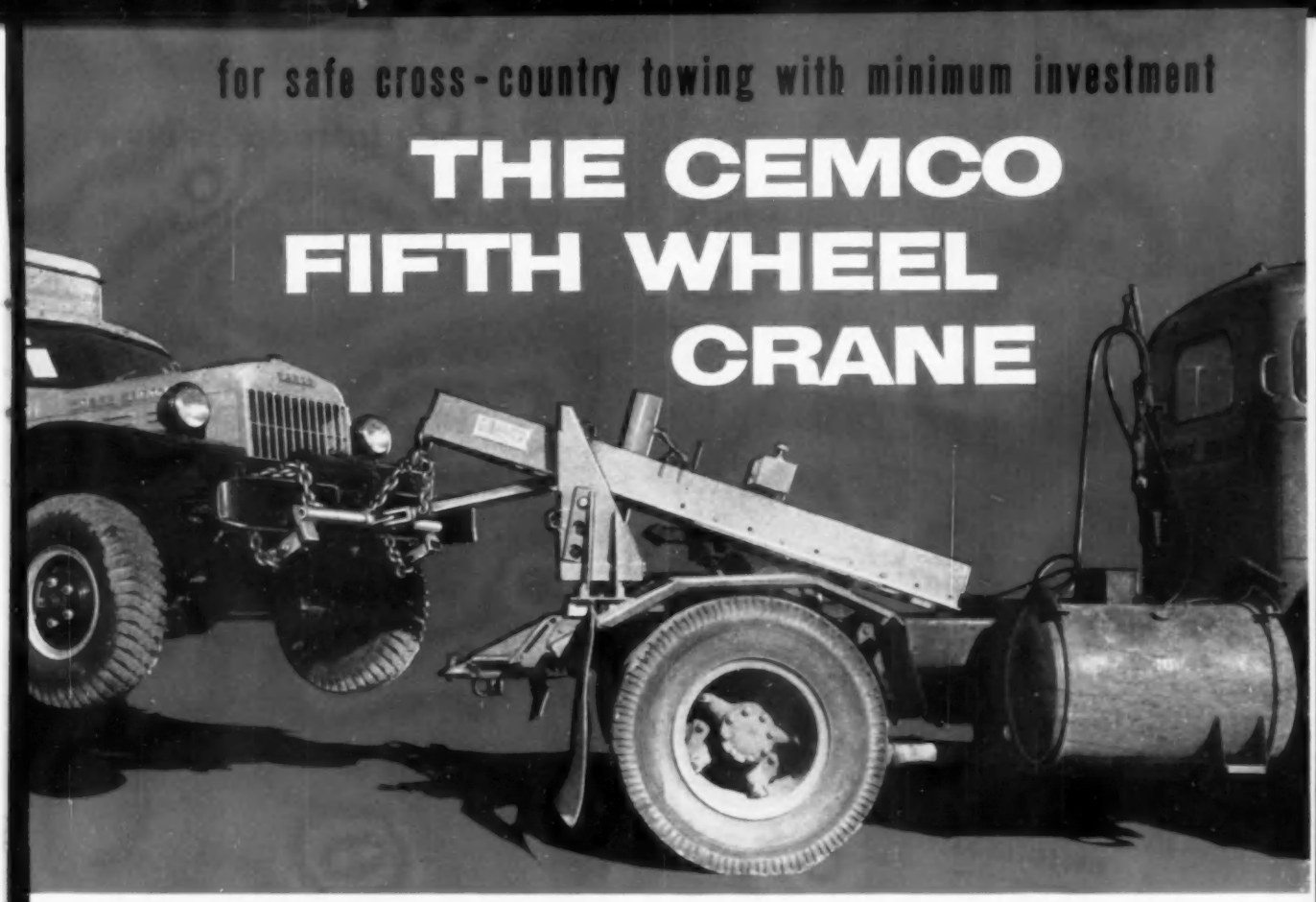
**ANALYZERS, Engine & Electrical**—C. E. Niehoff & Co., 4925 Lawrence Ave., Chicago 30, Ill.
**ANTI-JACKKNIFE SYSTEMS**—Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.
**AXLE SHAFTS**—Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio
**BRAKE LEVERS, Emergency**—Brake Div., Fawick Corp., 9921 Clinton Rd., Cleveland 9, Ohio
**CORD, Tire**—Chemstrand Corp., 350 Fifth Ave., New York 1, N. Y.
**CRANES, Portable**—Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 46, Wis.
**DOLLIES, Truck Wheel**—Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 46, Wis.
**FILTERS, LP Gas**—Ensign Carburetor Co., 1551 E. Orangethorpe, Fullerton, Cal.
**MOTORS, Starting, Air**—Bendix-Elmira Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y.
**PASSENGER CARS, Fleet**—Studebaker-Packard Corp., South Bend 27, Ind. (Advertiser only.)
**REFLECTIVE SHEETING**—Minnesota Mining & Mfg. Co., St. Paul 6, Minn. (Advertiser only.)
**TOOLS, Body Pneumatic**—Thor Power Tool Co., 175 N. State St., Aurora, Ill. (New address.)
**TRUCKS, LP Gas**—Reo Div., White Motor Co., Lansing, Mich. (Advertiser only.)




Now you can afford to equip each important terminal with a detachable unit which can be used to:

- Bring in disabled tractors
- "Dead-head" tractors
- Raise dropped trailers
- Hoist around the shop

After more than five years successful performance there are now hundreds of trucking companies which find these Cemco Fifth Wheel Cranes almost indispensable to economical operation.

## here's how it works:

The Cemco Fifth Wheel Crane is suspended in an "A" frame at the terminal. In comes the call for help. Any available tractor is backed under the crane, U-bolts are engaged at two points on the rear cross member of chassis and you're ready to go. Takes only a few minutes. The kingpin plate is adjustable to accommodate different makes of tractors: Lifting height is from 32" to 36" and capacity is 17,500 lbs. -- ample to lift any popular make heavy-duty tractor, or, the average trailer. (Choice of electric starter, motor-driven hydraulic pump, or, hand hydraulic pump).

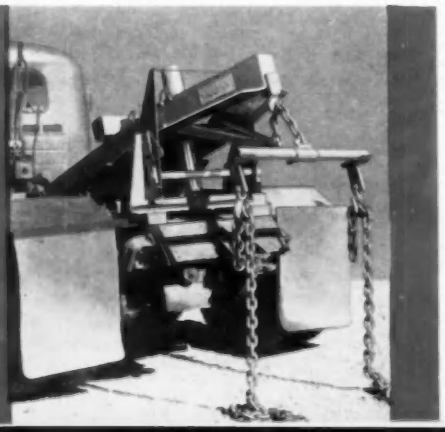
## one-man operated

No need to send out two men for a breakdown -- one can easily handle the rigging. After load is raised a 2", over-the-road safety bar takes the weight off the hydraulic system. Side guides keep the load from swaying and a special trunnion-swivel joint handles the turns and uneven travel.

For the low cost of this Cemco Fifth Wheel Crane you can't afford to be without the service it makes possible! Send for details and prices.

**manufacturers of**

- cemco trailer jockeys
- mobile machine shops
- mobile lubricating units
- bulk material carriers
- split-shaft power take-off



# CEMCO
## INDUSTRIES, INC.
GALION, OHIO

Yes, I'd like to know more about that Fifth Wheel Crane -- send me full specifications, prices, etc.

NAME _____

ST. & NO. _____

CITY _____ STATE _____

# What is YOUR Safety Score?

EQUIPMENT CHECK LIST

| | YES | NO |
|---|---|---|
| FLARES | | |
| FUSEES | | |
| FLAGS | | |
| LOW AIR PRESSURE SIGNALS | | |
| FIRE EXTINGUISHERS | | |
| BREAKAWAY KITS | | |
| SAFETY BELTS | | |
| WINDSHIELD WASHERS | | |
| SANDERS | | |

*and most important of all . . .*

**WHITE PREVENTIVE MAINTENANCE**

***IF YOU DO NOT SCORE 100%***

**See Your White Representative . . . Now!**

White

**THE WHITE MOTOR COMPANY**
**Cleveland 1, Ohio**

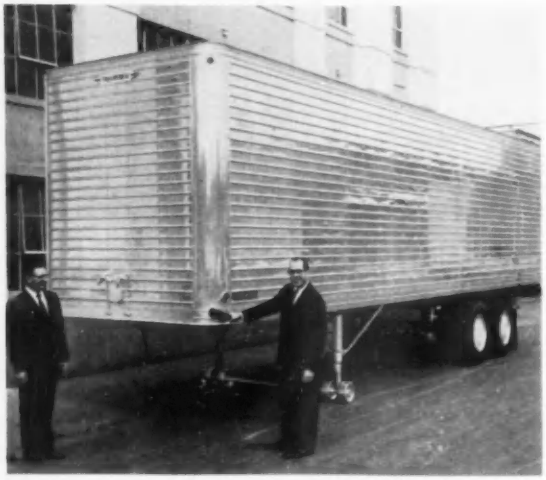
***. . . Always At Your Service***


# Trailmobile Introduces New "Series 60" Trailers

TRAILMOBILE, Cincinnati, Ohio, is introducing its "Series 60" trailers. They come in six basic models, offer new tandem assemblies, underframes, floors, landing gears, side panels, quarter panels and universal electrical connector system.

They're a part of Trailmobile's CID program whereby the fleet operator can pick his own components from among the many offered.

**New tandem axle assembly has** new design rocker beams and mounting. New spring design has only nine leaves in the pile but gives more stability and operation ease, says Trailmobile. Weight of assembly is cut more than 200 lb.



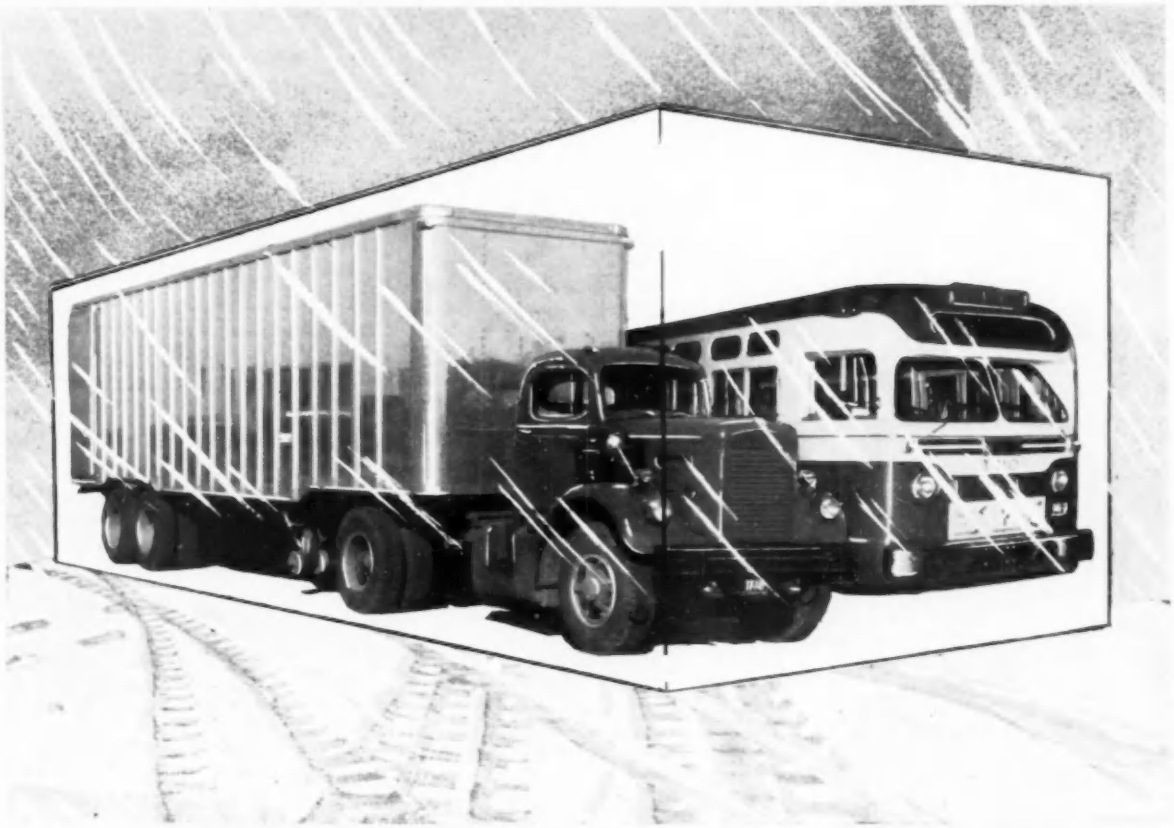
New trailer underframe supports gross lift truck axle loads up to 11,000 lb. This is achieved by an extruded aluminum floor section between fifth wheel and landing gear built of a series of "I" beams.

**Landing gear has full** 17-in. travel, features unitized bolsters and diagonal braces. It also has a new, positive lock designed to prevent gears from disengaging when assembly is being operated.

Quarter panel fasteners have been moved to the outside. Design makes it possible to rivet roof sheets. Aluminum extrusion joins sides and roof, is stretch-formed around corners to give same fastening all around.

**Electrical connector case** provides an approved ATA 7-way connector, a 6-way plug and quick connector terminals for tractors not wired to ATA specs. No loose parts are involved in making the connection, and no special tools are needed.

Trailmobile says the system can be completely rewired from the outside even if the trailer is loaded and sealed. Circuit breakers are used to protect against overloads.



# PROTECT YOUR FLEET'S FINISH FROM WINTRY BLASTS

***With This Modern Magnus Method***

**ALUMINUM SURFACES**

Clean thoroughly and effectively with new Magnus 89-B, the soluble acid-base cleaner with wetting agent and special activator built in.

**OLD ENAMEL SURFACES**

Clean thoroughly with Magnus NZL, the free-sudsing, free-rinsing wash. Brush, wipe or spray on—rinse off.

**BRUSH OR SPRAY A THIN COAT OF MAGNUS FF111 OVER ALL METAL OR AGED ENAMEL SURFACES FOR NON-LACQUER, NON-YELLOWING, NON-PEELING PROTECTION.**

Resistant to salt spray and weathering

Clear as water—and remains clear

Prevents rust stains or oxidation

Restores gloss to old faded paint

Protect your fleet. Let Magnus FF111 take the brunt of winter's force. Write today for special bulletin. Address Magnus, 38 South Avenue, Garwood, New Jersey.

**AUTOMOTIVE DIVISION**

**magnus**

**CHEMICAL COMPANY INC.**

**magnus** a world-wide organization specializing in cleaning and protection of all surfaces.

# Ford Truck for '59

Continued from Page 46

type is used in the 11- and 12-in. sizes. Two-plate, 13-in. clutch is standard on Model Nos. F850 through F1100, C850 through C1100, T850 and T950. It has 368-sq in. lining area.

On Model Nos. F600 and B600, a 6000-lb capacity front axle is available. It comes with the 700 Series steering gear. Frame reinforcements extending through rear hanger of the rear spring have been added to the two short-wheel base versions of Series F and Models Nos. C 750, 800 and 850.

**Power steering**

is standard on Model No. T700 when specified with the 302-cu in. V-8 engine, and on all other T Series models. It's also available as an option on all series.

New tilt-cab heater is a heavy duty, combination fresh air heater-defroster. It features adjustable air distribution doors.

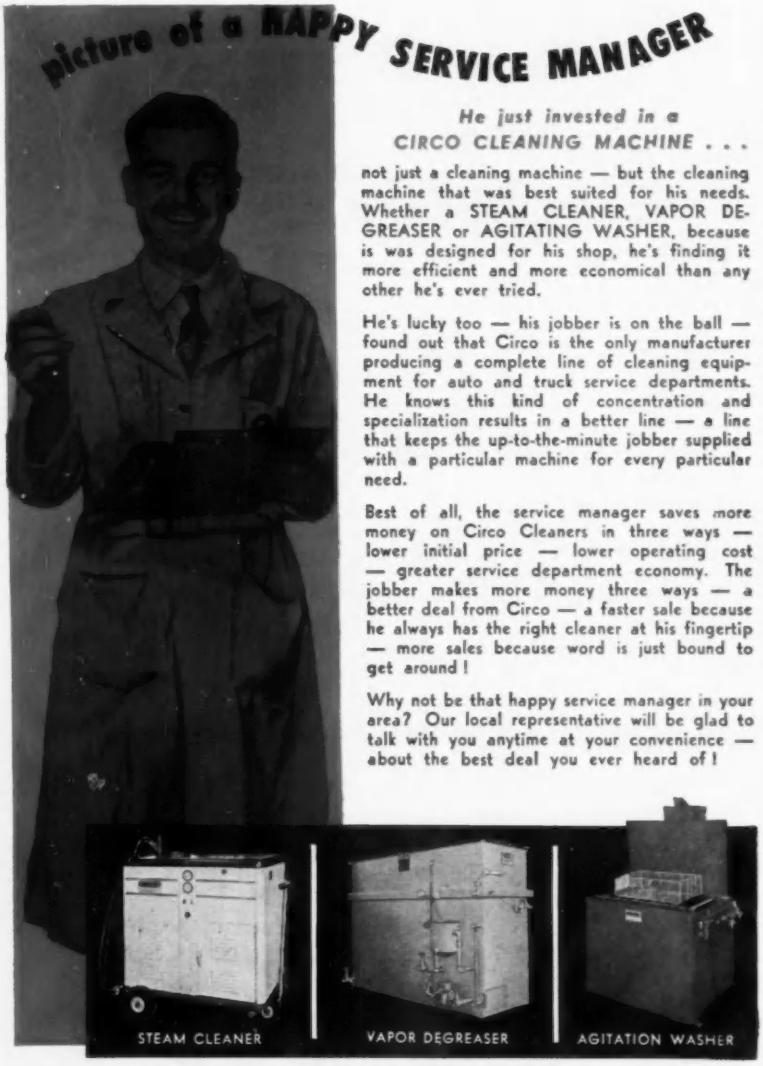
**Custom Ranchero**

and Courier pick-ups are mounted on 118-in. wheelbase for greater load space — 33.4-cu ft for the Ranchero. Courier sedan delivery has 84-in. load length.

On these two models, link-type stabilizers have been added to the ball-joint front suspension. Rear springs are variable rate, six-leaf. Ford's 6-cyl, 223-cu in. engine is standard with either the 292- or 352-cu in. V-8 as an option. Four transmissions are available — 3-speed, overdrive, a new two-speed "Ford-O-Matic" and "Cruise-O-Matic."

END

Please Resume Reading Page 50


*He just invested in a*
CIRCO CLEANING MACHINE . . .

not just a cleaning machine — but the cleaning machine that was best suited for his needs. Whether a STEAM CLEANER, VAPOR DEGREASER or AGITATING WASHER, because is was designed for his shop, he's finding it more efficient and more economical than any other he's ever tried.

He's lucky too — his jobber is on the ball — found out that Circo is the only manufacturer producing a complete line of cleaning equipment for auto and truck service departments. He knows this kind of concentration and specialization results in a better line — a line that keeps the up-to-the-minute jobber supplied with a particular machine for every particular need.

Best of all, the service manager saves more money on Circo Cleaners in three ways — lower initial price — lower operating cost — greater service department economy. The jobber makes more money three ways — a better deal from Circo — a faster sale because he always has the right cleaner at his fingertip — more sales because word is just bound to get around!

Why not be that happy service manager in your area? Our local representative will be glad to talk with you anytime at your convenience — about the best deal you ever heard of!

FOR BULLETINS AND FURTHER INFORMATION, WRITE TO:

SINCE 1923 CIRCO EQUIPMENT COMPANY

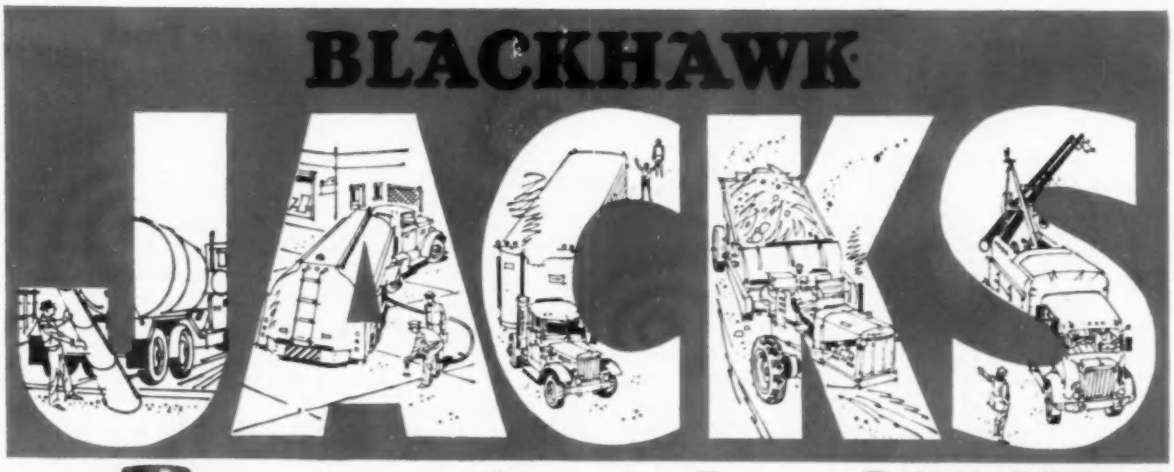
51 TERMINAL AVENUE • CLARK, NEW JERSEY FUlton 8-8600

Offices and Reps. in Principal Cities


**Air Vibrator**

**Operators having dump trailers are solving the sticking cargo problem with air-operated vibrators. The vibrator is mounted beneath the floor (circled in photo). It jars the body and literally shakes the material out. Made by the Cleveland Vibrator Co., Cleveland, Ohio, the units operate on 80 lb of air pressure.**

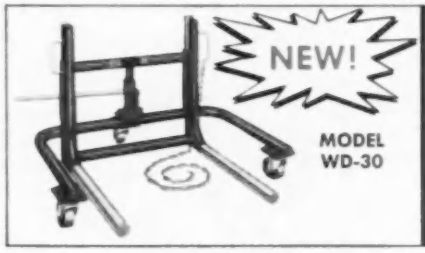
# BLACKHAWK JACKS



# service the GIANTS

EA-11

**BLACKHAWK HYDRAULIC HAND JACKS** — 1½ through 20 tons; Heavy-Duty Jacks through 100 tons. *Preferred* for rugged power, top performance.




**NEW BLACKHAWK WHEEL DOLLIES** — slash tire-wheel job time 80%! One man can easily service all 4 wheels. Three models — Capacity 1500 to 2600 lbs.

**NEW BLACKHAWK MOBILE LIFTS** — full 5,500 lbs. capacity. Lifts front and rear of all trucks. Two-speed air-lift. Mechanical safety latches. Quickly pays for itself.

# ...baby your service budget!

**BLACKHAWK SERVICE JACKS** — 1½, 2, 4, 10 and 20-tons. Easy-to-spot, sneaks under lowest axles. "Ten-tonner" handles everything that rolls!

**NEW BLACKHAWK T-4 TRANSMISSION JACK** — one of a complete line of four models, ½ and 1-ton capacities. T-4 and *one man* easily handle *all* makes of truck transmissions!

**NEW BLACKHAWK MOBILE CRANES** — lift engines, tires, barrels, all bulky equipment. ½, 1 and 2 ton capacities. Also mounted on trucks and docks.

More good news for fleets from the long red line — for bus and truck operators who want more profitable road time, less non-productive time in the shop. Blackhawk offers rugged, brute strength and top-efficiency in *new* fleet service equipment that boosts service efficiency, slashes manhours, speeds routine inspections of every vehicle you operate.

Make your next jack a Blackhawk! the only *complete* fleet service equipment line — your *one source* for the right jack for every job.

Your Blackhawk jobber is waiting for your call. Phone him *right now!*

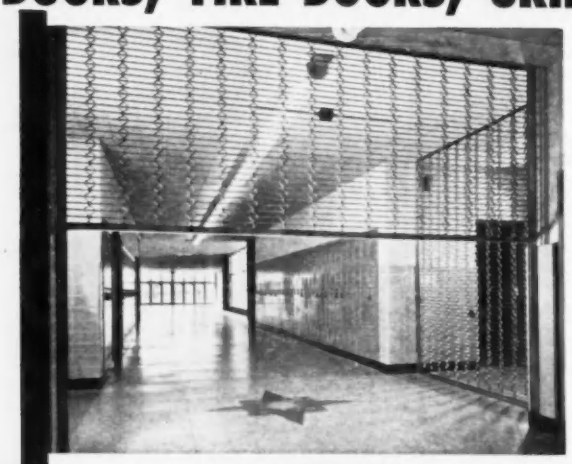
WORLD'S LARGEST MANUFACTURER OF MECHANICAL, AIR AND HYDRAULIC-POWERED SERVICE EQUIPMENT

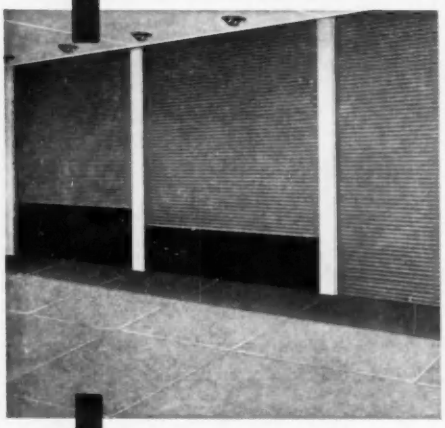
**BLACKHAWK**

**BLACKHAWK MFG. CO., Dept. J-11118, Milwaukee 46, Wisconsin**

*Best Answers for Doors, Passageways, Other Openings:*

# KINNEAR ROLLING DOORS,* FIRE DOORS, GRILLES





**Coiling upward action** is Kinnear's key to highest efficiency. It assures maximum space economy: *all floor and wall space around the opening is fully usable at all times.* Headroom and ceiling-space requirements are negligible (the barrel on which the closure coils when opened can in most cases be set within the wall either *below* ceiling height, *at* ceiling height, or *above* ceiling height). Motor, chain, crank or manual-lift is available, to suit any operating needs. In all cases, the closure rises completely out of the way when opened.

KINNEAR ROLLING DOORS protect openings with a continuous curtain of interlocking steel slats *(a Kinnear first)* — full door efficiency plus protection against wind, weather, intrusion, and fire.

KINNEAR ROLLING FIRE DOORS have features added to the steel-slat curtain operation that bring positive, automatic, safely controlled closure in case of fire, plus extra fire-blocking capacity approved by Underwriter's Laboratories, Inc.

KINNEAR ROLLING GRILLES, a combination of rugged steel bars and links fully protect openings against trespass, without blocking light, air, or vision.

All three of these Kinnear upward-acting closures can be used in various combinations, and are built to fit openings of almost any size. *Write today for full details.*

***Also doors of modified design, available as COUNTER SHUTTERS**

KINNEAR ROLLING DOORS
*Saving Ways in Doorways*

**The KINNEAR Mfg. Co.**
**FACTORIES:**
**2100-20 Fields Avenue, Columbus 16, Ohio**
**1742 Yosemite Ave., San Francisco 24, Calif.**
*Offices and Agents in All Principal Cities*

## Studebaker Truck

Continued from Page 52

4500 rpm with optional 4-barrel carburetor. Standard transmission is a 3-speed unit with 4-speed synchromesh, overdrive or automatic tranmission optional.

Two-stage rear springs are standard with heavy duty units available as an option. Other options include a heavy-duty engine, booster brakes and the "Twin Traction" differential.

**Three-quarter** ton "Transtar" model has 122-in. wheelbase and 7000-lb GVW rating. Eight-foot pick-up, platform and stake are available. It has crosslink, variable ratio steering.

Engine is the same as the ½-ton "Transtar"—289 cu in. V-8. Standard and optional transmissions are also the same.

**Biggest in the** line is the 2-ton "Transtar" with 19,000-lb GVW rating. Wheelbases include 131, 155, 171, 195 and 212 in. Platform or stake bodies are nine feet long on the 131 in., 12 ft on the 155 in., 14 ft on the 171 in. Stake body width is 88¼ in., platform body width is 93⅝ in.

Four-wheel-drive models come in ½-, ¾- and 1-ton sizes. GVW's range from 5400 to 10,000 lb on 112- to 131-in. wheelbases.

**Power plant is** the 289 cu in. V-8 rated 210 hp @ 4500 rpm and 300 lb ft of torque @ 2800 rpm. Bore and stroke are 3 9/16 x 3⅝ in. with 7.5-1 compression ratio.

Four-speed synchromesh transmission with left side power take-off is standard. Two-speed transfer case has high ratio of 1-1, low ratio of 1.866-1. Transfer case shifts can be made moving or standing still. Gear selection includes high range four-wheel drive, low range four-wheel drive and high range rear-wheel drive.

END

Please Resume Reading Page 56

"It didn't take long for us to discover that 2-way radio *improves* customer service as it *reduces* operating costs. Our saving of $4.00 a day for each radio-equipped truck for our pick-up and delivery service is about three times the actual cost of the radio.

"Our pick-up and delivery trucks get to each customer faster, and each truck works more profitably. We figure, at a nickel a minute, waiting costs money . . . so now when a driver finds a shipper's load not ready, or his loading dock tied up, he radios in and requests another assignment to fill the time.

"The late afternoon rush is handled smoothly without adding trucks. There are no more jammed switchboards and few, if any, customers are turned away. When a call comes in, the dispatcher sends the driver who is right in the vicinity to make the pick-up. This saves a tremendous number of back-tracking miles."

Robert T. Herrin

President,
Herrin Transportation Co.
Houston, Texas

**More Efficiency means More Profit . . . yours with Motorola 2-Way Radio**

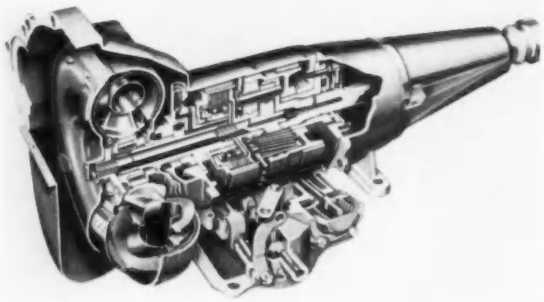
If your company can save only one-half as much as Herrin Transportation—25c an hour—your Motorola 2-way radio will more than pay for itself. Investigate the competitive edge that hundreds of truckers are gaining with 2-way radio. Contact Motorola—the *complete* communications supplier—complete product line, engineering service, installation and maintenance lease plans are available for every need. Write today.

- **"T-Power" 2-way radio . . .** features a completely transistorized power supply for both transmitter and receiver, reducing maintenance and "down-time" and providing improved performance at lower operating costs. Available with "PRIVATE-LINE" facilities to provide freedom from unwanted co-channel messages.
- **"Twin-V" 2-way radio . . .** features interchangeable operation between 6 and 12 volt electrical systems without modification—no 6 or 12 volt changeover problems in mixed fleet operation. Also available with "PRIVATE-LINE" facilities.

*T-Power, Twin-V, and PRIVATE LINE are Trademarks of Motorola, Inc.*

**MOTOROLA** 2-WAY RADIO

Motorola Communications & Electronics, Inc., A Subsidiary of Motorola Inc., 4501 Augusta Blvd., Chicago 51, Illinois



# Ford Offers Simplified "Ford-O-Matic" in '59

FORD CARS for '59 come in four series—Custom 300, Fairlane, Fairlane 500 and Station Wagons. Wheelbase is 118 in.

New is a "Ford-O-Matic" automatic, 2-speed transmission. It weighs only 18 lb more than standard synchromesh unit. With 105 less parts than the former design, Ford says it's easier to service.

**One-piece transmission** case and bell housing is aluminum, as is the extension. It operates through an hydraulic torque converter and automatic gear train. Gear train has two servo operated band clutches—front for low, rear for reverse, and a multiple-disc clutch for direct.

Ratios are low—1.75 to 1, drive—1 to 1, reverse—1.5 to 1. Transmission can be shifted manually from drive to low at any speed. (Not recommended at high speeds.) Low speed aids down hill braking.

"Cruise-O-Matic" automatic transmission is available with Ford's 332 and 352 V-8 engines.

**Power plants** include the 223 6-cyl engine with single barrel carburetor, the 292 V-8 with 2-barrel carburetor, the 332 V-8 with 2-barrel carburetor and the 352 V-8 with 4-barrel carburetor.

Ford's "Limited Slip" differential is optional. Unit has a pre-loaded clutch set to slip between 315 and 385 lb of torque. Two friction-faced steel plates are sandwiched between three steel plates. Pressure is applied by means of a spring washer between the plates and differential case.

**Ford's air** suspension still uses air bags in front. However, rear air bags are used in conjunction with leaf springs. Made of wide stock, these have three leaves. They are mounted to provide a low frequency, variable rate.

For '59, Ford also has added a foot-operated parking brake.

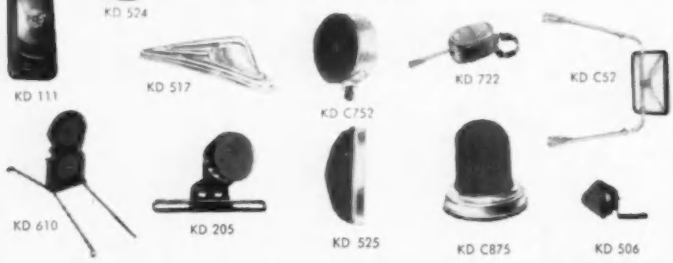

**for greater safety**

***how you can benefit from K-D's Complete Line***

The score of representative K-D Saftee Products shown here is evidence that K-D has a *single-source-service* you can depend on. Two important inventory benefits are certain. You will save money. You will save time. K-D's fast service from plant *and 14* warehouses enables you to cut stock to a minimum.

***lowest last cost***

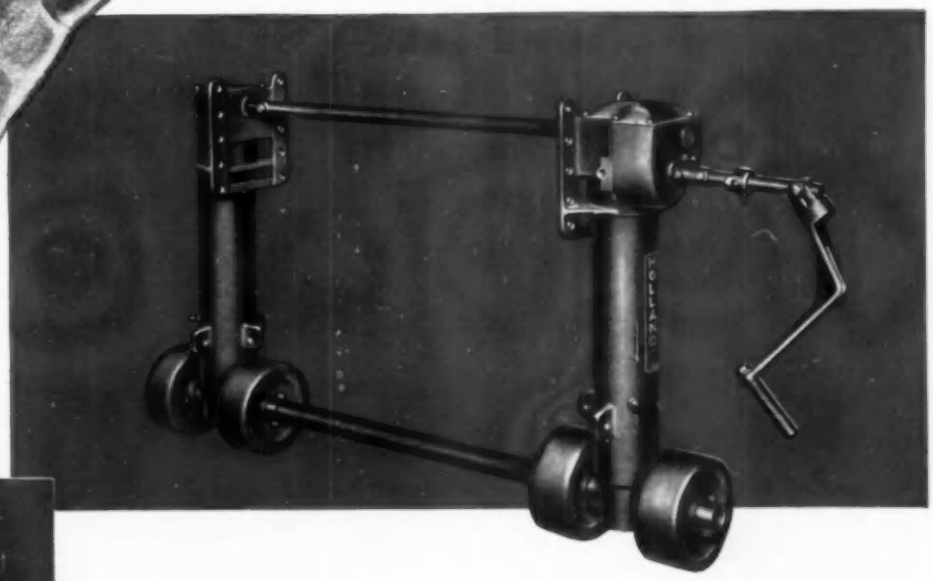
Quality materials . . . know-how engineering . . . skilled workmanship . . . result in products that cost more to manufacture . . . *initially* cost the user more. Installation cost of safety products, regardless of their quality, exceeds cost of product. Because superior materials, engineering and workmanship insure longer life . . . less costly replacements . . . you enjoy *lowest operating cost* with K-D Saftee Products.




K-D LAMP COMPANY
1910 ELM STREET • CINCINNATI 10, OHIO
WAREHOUSES: ATLANTA - BOSTON - CHARLOTTE - CHICAGO
DALLAS - KANSAS CITY - LOS ANGELES - MEMPHIS - MINNEAPOLIS
NEW YORK - PHILADELPHIA - SAN FRANCISCO - SEATTLE

THE COMPLETE LINE · SAFTEE PRODUCTS

# HOLLAND'S NEW V-1000 TWO-SPEED LANDING GEAR



**VERSATILE GEAR BOX**

**Cast Steel Gear Box is of a design that permits greatest variety of installation. Crank shaft allows greatest measure of ease and convenience.**

## *The Greatest Value In Landing Gears*

Holland Landing Gears have long been specified as standard factory installed trailer equipment, — and now comes the Holland V-One Thousand to add new laurels to the enviable reputation of the Holland line. Having a 37-ton capacity, its two speeds lift the heaviest loads with the greatest of ease and speed. On High speed there are 4½ crank turns per inch; Low speed, 31½ to the inch. Travel is as much as 16½ inches with the standard model; also made to meet other needs as may be specified.

Cast steel gear box and seamless tubing; unsurpassed strength throughout, yet the total weight is only 243 pounds. Designed for greatest versatility and convenience, — note how the crank shaft is placed beneath and along side of cross shaft for elimination of interference with trailer rub rail, — note the versatile design of the gear box for accommodating variety of installations.

Truly, the greatest value in landing gears, — a fact that is more than borne out when you get all the details.

Holland Hitch

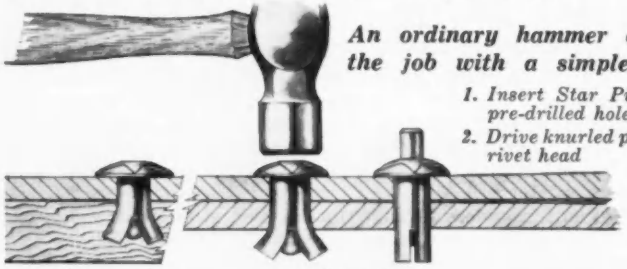
**HOLLAND HITCH COMPANY - HOLLAND, MICH.**

STAR

# PIN-GRIP

## for high speed riveting of metal panels to truck body with an ordinary hammer

Star Pin-Grip hammer-drive blind rivet eliminates the need for explosives, special tools or special skills. Pin-Grip does the job of a conventional rivet—faster, easier, safer, with real economies in time and labor.
Aluminum alloy body of Pin-Grip is assembled with a stainless steel, knurled drive pin (or on special order with aluminum drive pin). Wide range of Pin-Grip sizes available with these head styles: Universal, 100° Countersunk, Full Brazier, Panel, Splash Flat and Splash Round.




*An ordinary hammer does the job with a simple one-two!*

1. *Insert Star Pin-Grip into pre-drilled hole*
2. *Drive knurled pin flush with rivet head*

**STAR EXPANSION**
Mountainville, New York

*Please send illustrated Pin-Grip Catalog*

Name_____
Company_____
Address_____
City_____ Zone____ State____ CJ-11


## Chevrolet Cars Are Re-Styled for '59

CHEVROLET CARS for '59 have been re-styled. Important changes also have been made under the sheet metal.

Brake lining is up 27 per cent to 199.5 sq in. A second shock-resistant U-joint has been added. Radiator cooling area is increased and electrical system simplified.

### Multiple discs

replace the cone clutches in the 1959 "Turboglide" transmission. Six active faces are applied to the reverse clutch, eight to the forward clutch.

Front seat width at 5½ ft is five inches more than in '58. Trunk capacity is greater—32 cu ft. Cargo space in station wagons is now almost eight feet long.

### New acrylic lacquer

is used. Chevrolet says it won't need polishing for as much as three years in normal climates.

Impala line comes in 4-door sedan, 4-door hard top, sport coupe and convertible models. Improved two-passenger Corvette is available.

### Biscayne series

becomes the low price line replacing the discontinued Delray series. It comes in 2-door, 4-door and utility sedan models. The Bel-Air is offered in 2- and 4-door sedans.


SAVE MONEY WITH

Interstate

diesel service inc. 2093 East 19th St., Cleveland 15, Ohio

America's largest GM fuel injector rebuilder

# Cost Problem?

## . . . *Call on* **MIDLAND!**

**MIDLAND-ROSS CORPORATION**

**OWOSSO DIVISION • OWOSSO, MICHIGAN**

**The Only *Complete* Line of Braking Equipment**

POWER MIDLAND BRAKES

# "Lark" Series Leads Studebaker Cars for '59

STUDEBAKER'S LINE of cars for '59 is led by the new "Lark" series. Company calls them "smaller, more economical, more maneuverable, common sense cars."

Sedan and hard top models are 175 in. in verall length on 108½-in. wheelbase. Front leg room equals last year's Studebaker, rear leg is greater. Lark station wagons measure 184½ in. overall on a 113-in. wheelbase.

**Also in Studebaker's** '59 line is the 5-passenger Hawk. Six-cylinder or V-8 power plants are available on both the Lark and the Hawk. Transmissions available include "Flightomatic" automatic, overdrive or conventional.

L-head, 6-cyl engine is new. It's a 169.6 cu in. short stroke unit. The 259.2 cu in. V-8 is also of improved, short stroke design.

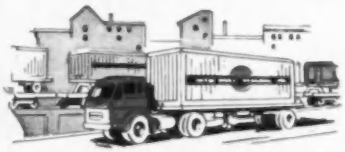
**Variable rate,** coil springs are used in front on all models with new shock absorber valving and redesigned leaf springs on the rear. Studebaker says the Lark steers so easily that power steering is not offered on 6-cyl models. It is an option on V-8's.

Removable fender panels are an easy repair feature of the Lark models. Options on all models include "Twin-Traction" non-slip differential, power brakes, air conditioning and Studebaker's automatic hill holder (except with "Flightomatic" transmission).

Optional on Lark station wagons is a hideaway third seat. It boosts passenger capacity from six to eight. Seat folds down into floor when not in use.

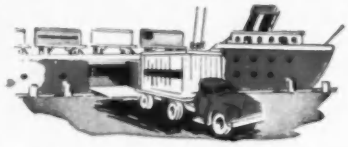

VERSATILITY *Plus* . . . BARTLETT'S PROVEN QUALITY

MORE JOBS HANDLED BETTER BY BARTLETT



All Railroad Piggy Back Loading Time Reduced

House Moving—5th Wheel lifts house up and helps to roll on new foundation



Fishy Back operations could not manipulate economically without this help.

Dumping Oranges from Groves into Washing Pits—materially cuts costs

Lift Boom Mounted on 5th Wheel can Boom or Lift any ordinary Tractor and tow in

SIMPLICITY IN MOUNTING

*Can Be Done in Any Good Truck Shop*

Unit complete with P.T.O., Pump, Shaft-Valves. With special Heavy Duty 5th Wheel.

Load is not carried on cylinders but rolls in track cuts line pressure and ring replacements

*OUTLIVES ANY OTHER 2 TO 1*

BARTLETT HYDRAULIC 5TH WHEEL

Shipped Assembled Ready to Mount

Bartlett

TRAILER CORPORATION

3080 ARCHER AVE. CHICAGO 8

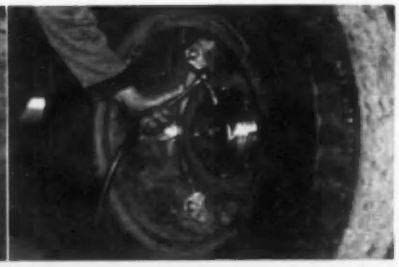
CORNER OF ASHLAND VIRGINIA 7-1160


**Radio Helps Safety**

**Ralf Brent of radio station WIP, Philadelphia, and Charles Godwin (left), Mutual Broadcasting System, recently testified in Washington before a special House Subcommittee on Traffic Safety. Brent stressed the fact that radio is the only way to effectively reach the motorist behind the wheel.**

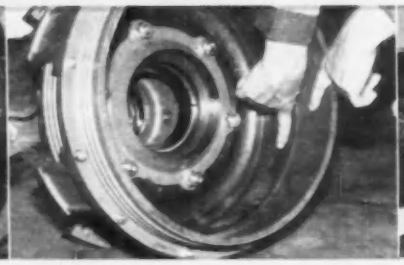
Differential Duals are easily installed on conventional brakes and axles.

Differential Duals let each wheel roll independently.



Conventional lubrication - oil or grease used. No extra attention needed.

Individual wheel clamping design gives positive tire alignment.



Dual drums stop both wheels from conventional brakes.

Many exclusive engineering features cut maintenance costs.

# The Wheel of Fortune

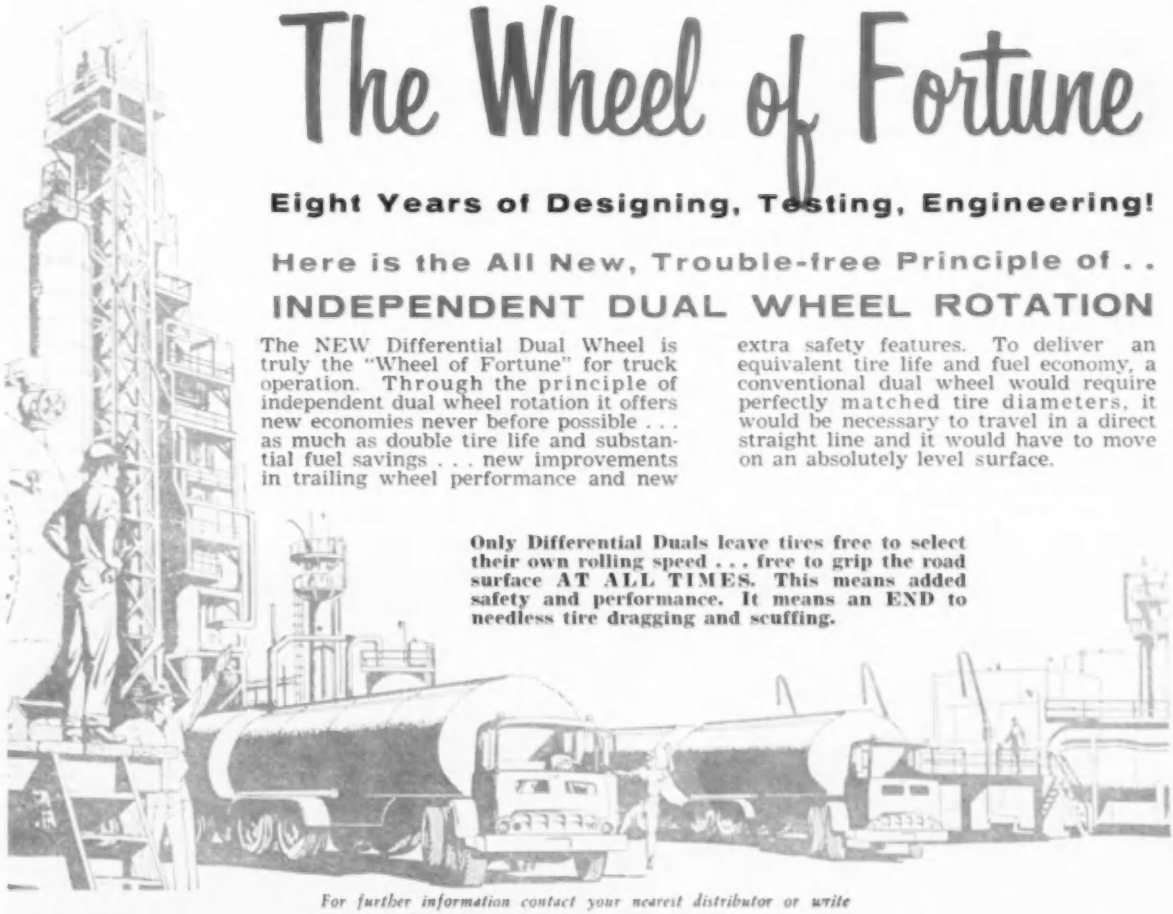
## Eight Years of Designing, Testing, Engineering!

### Here is the All New, Trouble-free Principle of . .

## INDEPENDENT DUAL WHEEL ROTATION

The NEW Differential Dual Wheel is truly the "Wheel of Fortune" for truck operation. Through the principle of independent dual wheel rotation it offers new economies never before possible . . . as much as double tire life and substantial fuel savings . . . new improvements in trailing wheel performance and new extra safety features. To deliver an equivalent tire life and fuel economy, a conventional dual wheel would require perfectly matched tire diameters, it would be necessary to travel in a direct straight line and it would have to move on an absolutely level surface.

**Only Differential Duals leave tires free to select their own rolling speed . . . free to grip the road surface AT ALL TIMES. This means added safety and performance. It means an END to needless tire dragging and scuffing.**



*For further information contact your nearest distributor or write*

**DIFFERENTIAL WHEEL DIVISION, ANDERSON-BOLLING MFG. CO.** GRAND HAVEN MICHIGAN

# November News Roundup

**This Is What It's From**

**Although Mack wasn't the only maker of chain drive trucks, it's the make usually thought of in connection with them. So that part of your guess might have been easy. But how about the model year? Sign says it's a 1906 model built in 1911. It was on display at Pennsylvania Motor Truck Assn.'s recent Fall Meeting.**

## Thruway Amends Weight Rules

ALBANY, N. Y. — The New York Thruway has amended its weight and size rules to encourage truck traffic. Axle weight limit formula is now 35,000 lb plus 1000 lb for each foot between front and rear axles. Maximum GCW remains at 65,000 lb. However under the new formula, combinations with 30-ft or more axle spacing are allowed 65,000 lb gross. Under the old formula, axle spacing had to be at least 37 ft for 65,000 lb gross to be legal. Thruway has also eliminated extra fees for extra-size vehicles. Dropped were charges of 1¢ per mile for each foot of overlength, 2¢ per mile for each foot of overwidth and 2¢ per mile for each foot of overheight.

## Express Rate Boost OK'd

WASHINGTON, D. C.—In a move that could lead to more less-than-trailer-load traffic for motor carriers, the Interstate Commerce Commission last month approved a 15 per cent rate hike on Railway Express traffic. With certain exceptions, the increase applies generally to class rate and less-than-carload commodity rate traffic.

## ATA Awards Newspapermen

WASHINGTON, D. C. — Daily newspapers in Virginia, Michigan and New York won the top three prizes in American Trucking Assns. 1958 Newspaper Safety Writing Competition. First prize awards of $500 each went to James Baker, Richmond (Va.) News Leader, single story category; Harry Taylor, Detroit Times, editorial category; and Walter Froehlich, Buffalo (N. Y.) Courier-Express, series of stories category.

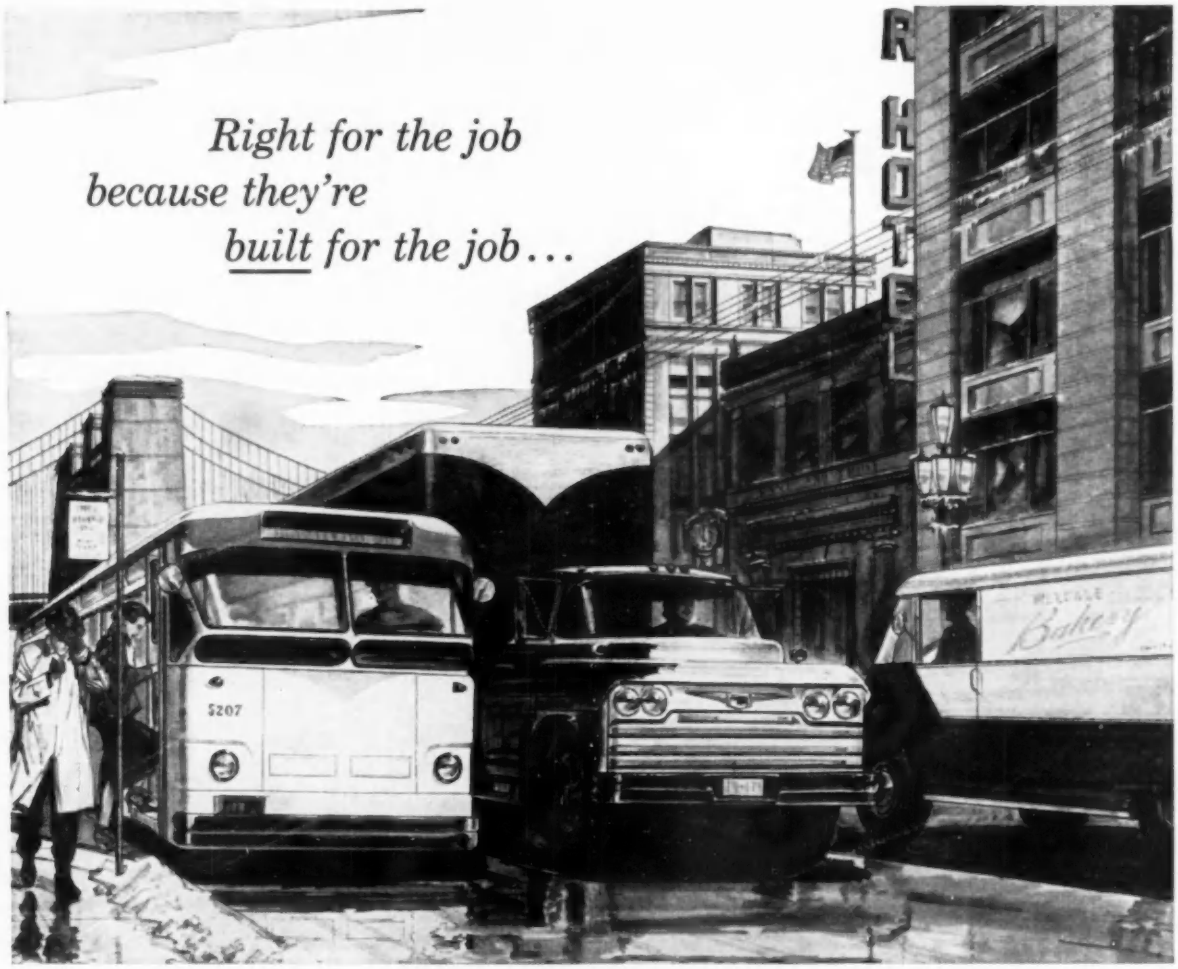
Second place prizes of $300 each were given to Mike Morgan of the Miami (Fla.) Herald, series; Gloria L. Negri of the New Bedford (Mass.) Standard-Times, single story; and Albert J. Pinder of the Grinnell (Iowa) Herald-Register, editorial.

## Trucker Buys Rail Car Operator

MENLO PARK, CAL. — Consolidated Freightways announces purchase of Transcontinental Transport, San Francisco, Cal. Transcontinental owns and operates rail tank cars for movement of animal and vegetable oils in the United States and Mexico. No change in its operation is contemplated, says Consolidated.

(TURN TO PAGE 264, PLEASE)

**Commercial Car Journal's Mobile Editorial Office led the parade of commercial vehicles that marked the opening of New York Thruway's Berkshire section last month. New facility connects Thruway with Massachusetts Pike. Also last month, the Mobile Team participated in Truck Body & Equipment Assns. Annual Meeting and Exhibit. Between Editor Bart Rawson (left) and Feature Editor Jack Colgan is Miss Connie Picone (on loan from TWA's Ambassadors Club in Philadelphia) who served as hostess for the many visitors attracted by the handy mobile office**




# EVANS HEATERS ARE RIGHT FOR TRUCKS BECAUSE THEY'RE BUILT FOR TRUCKS

**Evans heaters** . . . designed specifically for trucks and buses . . . are built for heavy-duty operation.

An Evans heater keeps the driver comfortable with a continuous flow of fresh, warm air. It also provides ample defrosting, keeping the windshield and side windows clear at all times.

Evans heaters do a better heating job because they provide both high BTU ratings and proper heat distribution. Without proper heat *distribution*, high BTU ratings are meaningless.

There's an Evans Heater for every commercial vehicle in use today. Each is backed with a parts "repair or replace" warranty good for a full year or 50,000 miles, whichever occurs first.

If you want the best "heat insurance" you can buy for your trucks, write for full information to Evans Products Company, Dept. Q-11, Plymouth, Michigan.

**Regional Representatives:** Cleveland, Frank A. Chase
Chicago, R. A. Lennox Co., Inc.; Detroit, Chas. F. Murray Sales Co.
Allentown, Pa., P. R. Weidner

***EVANS PRODUCTS COMPANY ALSO PRODUCES:***

railroad loading equipment; bicycles and velocipedes; "Evanite"® fir plywood; fir lumber; "Evanite"® battery separators; Evanite hardboard®; "Haskelite"® building panels, Plymetl® and doors; Evanite Plywall®

**EVANS PRODUCTS COMPANY • PLYMOUTH, MICHIGAN**

## Nov. News Roundup

Continued from Page 262

### 1958 Domestic Truck Factory Sales by G.V.W.

| Month | 6,000 lb. and less | 6,001-10,000 lb. | 10,001-14,000 lb. | 14,001-16,000 lb. | 16,001-19,500 lb. | 19,501-26,000 lb. | 26,001-33,000 lb. | Over 33,000 lb. | Total |
|---|---|---|---|---|---|---|---|---|---|
| January | 32,143 | 10,187 | 1,075 | 5,454 | 6,991 | 3,640 | 2,482 | 2,048 | 64,020 |
| February | 26,460 | 8,302 | 983 | 5,167 | 5,303 | 3,545 | 2,460 | 1,768 | 53,988 |
| March | 27,929 | 8,450 | 963 | 5,581 | 5,431 | 4,005 | 2,929 | 2,349 | 57,637 |
| April | 25,822 | 8,866 | 1,041 | 5,896 | 5,933 | 3,918 | 2,169 | 2,397 | 56,042 |
| May | 26,329 | 9,152 | 1,071 | 5,985 | 7,051 | 4,182 | 2,236 | 2,503 | 58,509 |
| June | 25,241 | 9,120 | 1,236 | 5,976 | 6,275 | 3,674 | 2,028 | 2,469 | 56,019 |
| July | 24,237 | 7,668 | 788 | 5,039 | 5,393 | 3,211 | 1,911 | 2,207 | 50,454 |
| August | 21,768 | 7,374 | 752 | 4,024 | 5,619 | 3,637 | 2,016 | 1,840 | 47,030 |
| Total—8 Mos. 1958 | 209,929 | 69,119 | 7,909 | 43,122 | 47,996 | 29,812 | 18,231 | 17,581 | 443,699 |
| Total—8 Mos. 1957 | 308,359 | 92,898 | 21,471 | 81,370 | 36,073 | 30,098 | 23,248 | 22,174 | 615,691 |

Source: Automobile Manufacturers Association.

### GM Opens Motorama

NEW YORK CITY—Middle of last month, General Motors opened its 1959 Motorama in the Grand Ballroom of the Waldorf-Astoria. On display were a full line of GM's 1959 passenger cars, the experimental gas turbine-powered Firebird III, plus a 35-min stage show "Imagination in Motion." Eighty truck-trailer combinations moved the show to Boston, Mass., early this month where it is scheduled for the Commonwealth Armory, Nov. 8-16.


new! thin... bright... rugged!

Model L48

It's the new Arrow "Lo-Boy" Marker Light. *Thin* for its own protection! Offers a defense against damage during loading and maneuvering. Flush mounted on the inside—no protruding sockets—shifting cargo cannot damage the "Lo-Boy." *Bright* light provides great visibility—even from the side. *Rugged* construction provides longer life, less maintenance.

Universal mounting holes make installation quick and easy. Completely waterproof, with stainless steel and phosphorous bronze materials, the "Lo-Boy" offers a lifetime of service — will never rust or corrode.

ARROW SAFETY DEVICE COMPANY

GEORGETOWN 2, DELAWARE

COMPLETE AUTOMOTIVE LIGHTING SYSTEMS, SAFETY EQUIPMENT AND MIRRORS

Arrow designs with the FLEET in mind!


### 1958 Truck Trailer Shipments

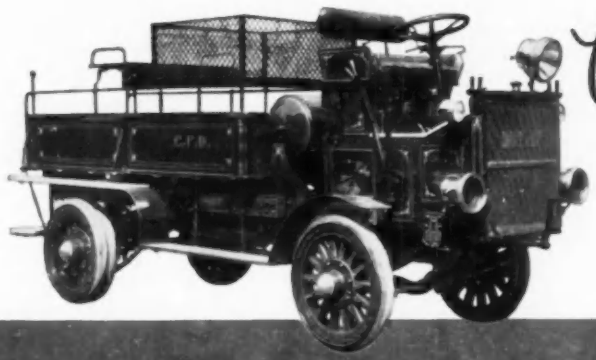
| Type of Trailer | August | Eight Months |
|---|---|---|
| **Vans** | | |
| Insulated and refrigerated | 260 | 2,213 |
| Steel | 28 | 241 |
| Aluminum | 232 | 1,972 |
| Semi-insulated | 66 | 380 |
| Steel | 66 | 380 |
| Aluminum | | |
| Furniture | 100 | 1,096 |
| Steel | 100 | 1,096 |
| Aluminum | | |
| All other closed-top | 1,484 | 10,158 |
| Steel | 407 | 3,422 |
| Aluminum | 1,077 | 6,736 |
| Open-top | 296 | 1,291 |
| Steel | 136 | 672 |
| Aluminum | 160 | 619 |
| Total—Vans | 2,206 | 15,138 |
| **Tanks** | | |
| Non- and low pressure | | |
| Petroleum | | |
| Carbon and alloy steel | 173 | 1,456 |
| Stainless steel | 16 | 137 |
| Aluminum | 135 | 882 |
| Total—Petroleum | 324 | 2,475 |
| Chemical, food, fluid solids | 29 | 428 |
| All other, incl. aircraft refuelers | 44 | 255 |
| High pressure (LPG), chemicals, etc. | 30 | 198 |
| Total—Tanks | 427 | 3,356 |
| **Pole, pipe and logging** | | |
| Single axle | 29 | 219 |
| Tandem axle | 66 | 352 |
| Total | 95 | 571 |
| **Platforms** | | |
| Racks, livestock and stake | 121 | 1,018 |
| Grain bodies, all types | 101 | 617 |
| Platforms (flats), all types | 639 | 3,782 |
| Total—Platforms | 861 | 5,417 |
| Low-bed heavy haulers | 189 | 1,621 |
| Dump trailers | 250 | 1,733 |
| All other trailers | 186 | 1,354 |
| Total—Complete Trailers | 4,214 | 29,190 |
| Trailer chassis | 299 | 2,111 |
| Total—Trailers and Chassis | 4,513 | 31,301 |

Source: Industry Division, Bureau of the Census.

### Check Your Checks Free

ROCHESTER, N. Y.—With many banks around the country setting up electronic check handling systems utilizing punch card checks, Todd Co., P. O. Box 910, Rochester 3, N. Y., offers a free check analysis service. They'll look over possible redesign of your

(TURN TO PAGE 266, PLEASE)



*for over fifty years*

**In 1908—the CHICAGO FIRE DEPT.** —then as now—was up-to-the-minute with Waukesha Engine powered equipment.

# fast · rugged · powerful

# WAUKESHA

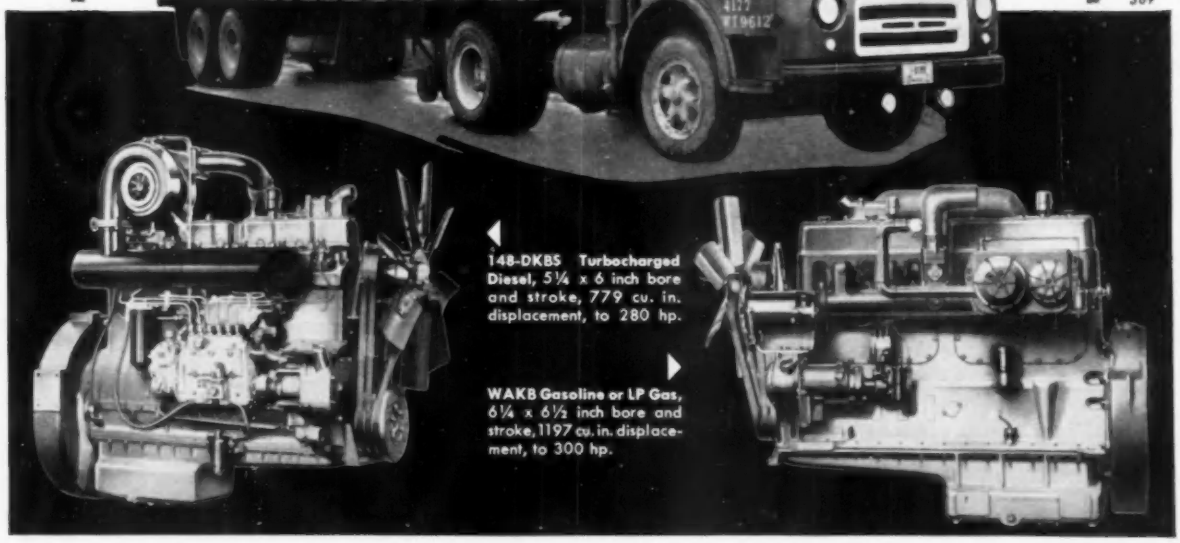
## *transport* ENGINES

Where the pay-off is on pay-load—in fast cross country service... off the highway... or extra heavy duty hauling—you'll make more miles and cut costs too, with these modern Waukesha truckers' engines. Designed to put out the power, Waukeshas pull-and-pay day after day without faltering or breakdown.

*Send for Bulletins*

**WAUKESHA MOTOR COMPANY • WAUKESHA, WIS.**
**New York • Tulsa • Los Angeles**

389



◀ **148-DKBS Turbocharged Diesel,** 5¼ x 6 inch bore and stroke, 779 cu. in. displacement, to 280 hp.

▶ **WAKB Gasoline or LP Gas,** 6¼ x 6½ inch bore and stroke, 1197 cu. in. displacement, to 300 hp.

## Nov. News Roundup

Continued from Page 264

present company checks from a viewpoint of general efficiency, arrangement for accurate bank handling, advertising and public relations values, color, typography, layout and fraud safeguards.

**New York**—All 1953 model motor vehicles are required to be safety-checked during November as provided by the state's vehicle inspection law.

**1959 is a big legislative year** among the states. All but three—Kentucky, Mississippi and Virginia—have scheduled sessions. Of the 45 legislatures meeting, all convene in January except Alabama (May), Florida (April), Louisiana (May) and North Carolina (February).

Fleets honoring their outstanding, safe drivers recently included:

**Herr's Motor Express,** Quarryville, Pa.—to 29 drivers. Awards were made at the fleet's annual banquet with over 150 employees and guests attending.

**Collins Transportation,** Taunton, Mass.—to 14 drivers. Special feature was a testimonial by the drivers to four of the fleet's mechanics for their efforts in keeping the fleet's trucks mechanically sound.

**Coastal Truck Lines,** York, Pa., received the Commonwealth of Pennsylvania Traffic Safety Award "for significant contributions to the furtherance of traffic safety." The award was made by Governor George Leader. Company Safety Director Robert Varner received an award for his outstanding contribution to safety throughout the state.

POUND FOR POUND THE MOST POWERFUL

ELECTRIC
SIZE 8U
5/8" DRIVE

This heavy-duty Impactool gives you more than time and labor savings. It's built to take tough rock-em, sock-em shop treatment and take it for a long time. Plenty of power to spare and plenty of design features that mean easier use. Ask your Ingersoll-Rand jobber to show you why.

18-731

ONLY INGERSOLL-RAND GIVES YOU
5 SIZES IN ELECTRIC IMPACTOOLS
8 SIZES IN AIR TOOLS

**Central Truck Lines,** Tampa, Fla. —to 44 drivers. Eighteen have no-accident records of five years or more.

**Capital Tank Lines,** Bell, Cal., has put a fleet of aluminum tank semi-trailers into service. Capacity of the new units is 9650 gal of aviation gasoline as compared to 8200 gal with earlier equipment. Units have nine 18-in. top openings for cleaning and inspection.

**Gray Coach Lines,** Toronto, Canada, gets delivery next spring on 20 41-passenger "Highway Traveller" buses. Ten, for use on express routes, will be fully air-conditioned.

**Hoosier Coal & Oil Co.,** Indianapolis, Ind., just took delivery of five 2150-gal tank trucks. They're two-way radio equipped. Tanks were made by Farrell Mfg. Co., Joliet, Ill.

**Livingston Rock & Gravel Co.** has bought two Fruehauf aluminum bottom dump cement hoppers. They have removable domes so they can haul rock and sand when not in cement service.

**Mason-Dixon Lines,** Kingsport, Tenn., is putting into service two 35-ft trailers made by Brown Trailer. Weighing 7900 lb, the new vehicles have aluminum slat liner, two skylights. Lower liner is a 12-in. section instead of 24 in. with eight rows of slats rather than six to the unit.

**Super Service Motor Freight,** Nashville, Tenn., has installed 4000 Alcoa aluminum forged disc wheels on 200 trailers, 190 tractors.

**Navajo Freight Lines,** Denver, Colo., has put a dozen International Model No. DCOF-405 tractors to work. They have 137-in. wheelbase, 80-in. sleeper cabs, Cummins diesel engines, 12-speed synchronized transmissions.

**Blue Comet Express** has equipped 43 trucks and two supervisors' cars with RCA two-way radio. They'll operate in the Philadelphia and Jersey City, N. J., areas. Three will have 100-watt units to provide coverage in suburban areas.

(TURN TO PAGE 270, PLEASE)

PISTOL GRIP TOOLS
YOU CAN GET...

AIR
SIZE 310 / ¾" DRIVE

Designed for heavy-duty work, this Impactool is the most powerful ever built for one-hand operation. The Size 310 finds a new friend every time a mechanic uses it.

AIR
SIZE 308 / ⅝" DRIVE

A rugged Impactool designed to handle the tough ones, it will eliminate wasted hours and skinned knuckles on rusted and frozen nuts and bolts on heavy-duty fleet work. You'll agree when you see it operate.

18-731-1

Ingersoll-Rand
11 Broadway, New York 4, N.Y.

Studebaker Scotsman Pickup

# DISCOVER JUST HOW MUCH THESE

THE **SCOTSMAN** HAS THE LOWEST PRICE TAG OF ANY FULL-SIZED TRUCK IN AMERICA! Initial price is just the beginning of your savings. The matchless performance of today's most efficient L-Head "6" or heavy-duty V-8 engines continues to cut your operating costs, day in, day out. ■ The Scotsman not only saves money; it also increases payload. It gives you the widest clear-floor pickup box of any truck with no wheel wells to get in the way. Moreover, its double thick steel sides and ribbed steel floor make it the strongest box obtainable. The Scotsman is also available in a stake body model, equipped with steel rub rail, uprights and pockets. Stake racks go on and off effortlessly. Functional in design, the Scotsman assures low maintenance and keeps downtime to a minimum. ■ STUDEBAKER "HAUL OF FAME" TRUCKS—famed for ruggedness, reliability and remarkably low-cost operation (5,000 lbs. to 19,000 lbs. GVW). You get 210 h.p.—225 with 4-barrel carburetor option. You can team this efficient power with either standard three-speed or optional overdrive, 4-speed synchromesh or automatic transmission, and you have mile-by-mile operating thrift that pays off in greater profit. And, you can get power brakes that increase your safety under all load conditions. ■ Need high torque power that can handle a really big payload at low cost per mile? Studebaker Heavy-Duty huskies (available to meet your individual body requirements) give you that extra hustle over the hills, faster acceleration when you need it most. They offer you many premium features for maximum performance and durability. Highest section-modulus frame, for example...truck or tractor versions in wheelbases up to 195"...exclusive Hill-Holder, a famous Studebaker "first" at moderate extra cost...and cab driving luxury that pays off in greater comfort, less driver fatigue and far safer hauling.

¾ ton Studebaker Service Stake | Studebaker Service Panel Wagon | Utility Service Sedan—2 or 4 door sedan | 2 ton tractor with Van Trailer

# STUDEBAKER VEHICLES SAVE YOU

VERSATILE STUDEBAKER PANEL WAGON . . . It's a delivery truck . . . a promotional vehicle . . . or a pleasure car. You can change the personality of this car with just a twist of the wrist. With advertising panels in place, it carries your product or company name as it performs its duties as a delivery or promotional vehicle. Remove the panels, and you have a smart Lark Station Wagon. Economical to operate, it delivers peak performance on regular gas. To add even greater versatility to the Panel Wagon, it can be equipped with handy tool racks, thereby increasing efficiency of home-servicing operations. The Utility Sedan is an ideal home service vehicle. It gives you a spacious flat cargo area behind the front seat—convenient for carrying bulky merchandise or extra equipment. And for your salesmen: Don't overlook the 2- or 4-door Lark sedan as a salesman's car. Extremely economical to operate, it delivers peak performance on regular gas. It is the lowest priced full six passenger sedan. Its smart styling says nice things about your company.

**STUDEBAKER**

**Without obligating myself, I'd like to learn more about Studebaker Vehicles.**
MR. AL FITZPATRICK, Manager, Fleet Sales
STUDEBAKER-PACKARD CORP./Dept. CC-11, South Bend 27, Indiana

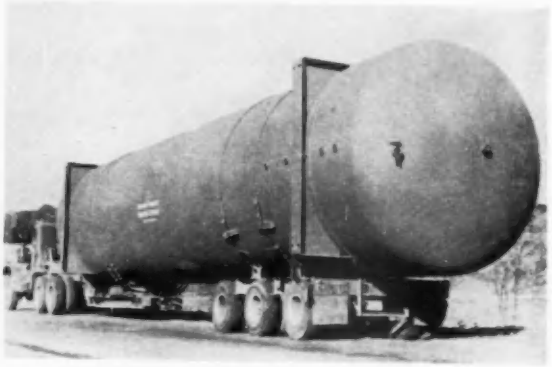
NAME _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

### Twenty-Ton Tank Takes a Trip

**This 30,000 gal high pressure gas tank made by Advanced Products, Inc., was recently transported from Milton, Pa., to the Washington Gas Light Company's installation at Rockville, Md. Acting as its own truck bed, the huge tank was rested on a three-axle dolly and fastened in place by two sets of ratchet-type load binders attached to wire rope. The load binders were made by the American Forge & Mfg. Co., McKees Rocks, Pa. They operate on the turnbuckle principle for tightening, binding and releasing loads.**




# Proved 125,000,000 Times!

## BENDIX STARTER DRIVES

For nearly fifty years—and in well over 125,000,000 automotive installations—the Bendix* Starter Drive has been proving itself the best performing drive in its field. That's why most fleet owners specify genuine Bendix Starter Drives and parts whenever starter drive service is required. They know that good service and dependable performance are essential in order to meet competition—and that, in starter drives, *the best by far is Bendix*. Order *by name* from your distributor.

*REG. U. S. PAT. OFF.

Bendix-Elmira
Eclipse Machine Division
Elmira, New York

Bendix
AVIATION CORPORATION


## Nov. News Roundup

Continued from Page 267

**Illinois Brick Co.**, Blue Island, Ill., uses a combination of overhead crane loading and dump loading for fast brick delivery. Each 5-ton International carries 6000 bricks—about 12 tons. Dump hoist is a twin, 3-stage, out-mount telescopic hoist made by the Anthony Co.

**A & H Truck Lines**, Evansville, Ind., has added 12 International Model No. AC-225-D tractors to its fleet. Features include 143-in. wheelbase, Fuller 10-Speed RoadRanger transmission, Cummins NH-180 diesel engines, 71-gal step tank on left, 52-gal step tank on right.

**Red Star Express Lines**, Auburn, N. Y., just bought 80 Mack cab-forward N series diesel tractors with air-shift transmission.

**Lee Way Motor Freight**, Oklahoma City, Okla., has taken delivery from Lufkin Foundry and Machine Co., Lufkin, Texas, of five reefer semi-trailers. The 39-ft units have Thermo-King refrigeration units, extruded aluminum floors, tube-type meat rails, adjustable tandems.

**Spector Mid-States**, Chicago, is taking delivery of 75 lightweight Brown Trailers. Units weigh about 9200 lb, have sliding running gear, two sky lights, aluminum slat liner and low level king pin.

**Associated Transport**, New York City, is adding 50 International Model No. DCO-405 western-type tractors with sleeper cabs and 116 Fruehauf trailers to its fleet. Trailers include 106 "Volume Vans," 10 city delivery units. The COE tractors have 180-hp diesel engines, 5-speed transmission with 2-speed rear axle.

(TURN TO PAGE 272, PLEASE)

# THIS YEAR . .
# . . MORE THAN EVER
# THIS NAME

BOYERTOWN "BETTER BUILT"

*. . . means*

## MORE VALUE Per Body, Per Dollar

"BETTER BUILT" of Hi-Tensile Steel

MERCHANDISER M10-H Model

## ADVANCED DESIGN FOR '59 for "Better Built" Delivery Bodies

- *Increased* Payload Dimension
- *Added* Driver Conveniences
- *Greater* Serviceability
- New Design Body Frame Construction
- Wider Cab Doors
- Positive Cab Door All-weather Seal
- Lower Cab Steps
- Replaceable Bottom Skirt Panels
- Four Protective Side Panel Rub Rails

DELIVERY PANEL S8-L Model

These new features are now available on All Standard Production Models—PLUS All the Time Proven—User Tested Boyertown Body Features approved by Truck Operators and Fleet Owners providing greater strength, lighter weight, greater resistance to corrosion and the functional design for every delivery need and handling methods.

Delivery body models and sizes with loadspace lengths from 74" to 216".

BOYERTOWN AUTO BODY WORKS, Inc. BOYERTOWN, PENNA

**DELIVERY VEHICLE BUILDERS FOR 85 YEARS**

## FREE BROCHURE

Mail the attached Coupon today! You will receive, no charge, a 16-page, factual and illustrated brochure that will help save you thousands of dollars in your delivery operations. "Better Built" delivery body specifications and data to enable you to order the exact unit your business needs.

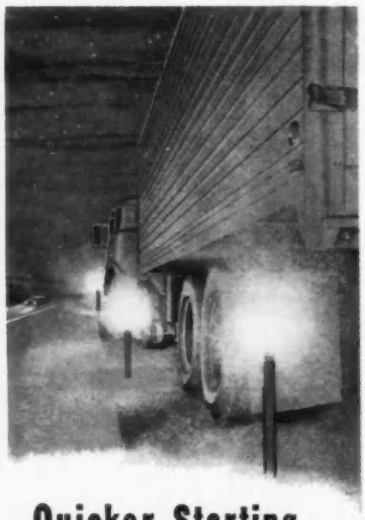
Boyertown Auto Body Works, (Inc.)
Dept. CJ-2 Boyertown, Penna.

SEND ME AT ONCE THE BOYERTOWN DELIVERY TRUCK BROCHURE

Name.....

Street.....

City.....State.....



**Quicker Starting, Better Performing**

# KILGORE

*Flares*

**Provide**

**SAFETY, LIGHT, CONVENIENCE for Highway Night-Time Emergencies**

A pitch-black night . . . a heavily-traveled highway . . . a stalled, unlighted truck . . . a rapidly approaching car . . . all stage props for a serious, costly accident. But, with Kilgore Flares placed ahead, alongside and behind the truck, the oncoming motorist is aware of lurking danger.

Kilgore Automotive and Truck Flares perform in all kinds of weather. Faster starting . . . candle power substantially exceeds minimum requirements . . . convenient, sturdy wire stand or spike . . . plastic plug for greater rigidity. Equip your fleet with Kilgore Automotive and Truck Flares. See your Kilgore dealer.

Kilgore, INC.

INTERNATIONAL FLARE SIGNAL DIVISION

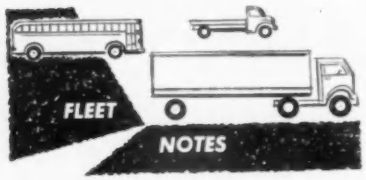
Westerville 2, Ohio

## Nov. News Roundup

Continued from Page 270

**Wagoner Transportation,** Muskegon, Mich., has put into service four Diamond T Model No. 921BN tractors. Features include Cummins NH-220 diesel, Fuller R960 RoadRanger transmission, Timken FE900 front axle, Timken R200P rear axle, Ross TE71 steering gear, Spicer 14-in. 2-plate clutch, Kysor radiator shutters, Bostrom driver's seat. Wagoner uses tractors to pull double bottom tankers hauling 10,000 gal of gasoline with GTW of 100,000 lb.

**Pilot Freight Carriers,** Winston-Salem, N. C., is operating a fleet of 110 Diamond T Model No. 921CR tractors. The tilt-cab tractors have Cummins HRF-6 diesel engine, Shuler FE11 front axle, Eaton 2011 rear axle, Fuller R96 RoadRanger transmission, Spicer 14-in. 2-plate clutch, Ross TE71 steering gear, Kysor radiator shutters, ASF Model No. 400C 36-in. fifth wheel, Bostrom driver's seat and Bostrom companion seat.




**Ryder System, Inc.,** Jacksonville, Fla., has bought **Columbia Terminals Co.** and its 11 subsidiary leasing companies. It boosts Ryder's leasing operation by 1600 vehicles for a total of 9000.

**Pacific Intermountain Express,** Oakland, Cal., has appointed **E. R. Crippen** as assistant director of safety and driving. He was safety director of West Coast Fast Freight at the time of its merger with PIE.

**Spector Mid-States,** Chicago, has appointed **Edwin M. Allen** as director of training.

**Allied Van Lines,** Broadview, Ill., has added two safety engineers. **Frank E. Caciopoli** will operate out of Allied's Secaucus, N. J., terminal and **Stanley E. Nelson** out of Broadview.

(TURN TO PAGE 274, PLEASE)

**Tilt-Away delivery-truck seat speeds loading and unloading**

YOUR DRIVERS will appreciate this versatile Tilt-Away by American Seating. First because of its comfort: full-depth foam-rubber seat in vinyl-coated fabric upholstering that's perforated for ventilation. And it adjusts vertically to five positions with a four-inch range to fit short or tall operators.

Big thing, though, is that it speeds deliveries: the entire seat hinges at the floor, back pad folds against the cushion for ease in loading and unloading the truck.

Next time you order trucks or truck seating, don't just take what you get. Insist on American Seating Tilt-Away Seats. Write us for additional information.

Model 0-4418
Tilt-Away Seat

Branch Offices and Distributors in Principal Cities. Manufacturers of Transportation, School, Theatre, Auditorium, Church, Stadium Seating, and Folding Chairs and Tables.

AMERICAN SEATING
GRAND RAPIDS 2, MICHIGAN

The standard by which all other public seating is measured

Fleet operators like yourself have given us the best sales talk for Johns-Manville Fleet Tested Sets . . .

> . . ."*On the basis of actual mileage records, these premium linings are the longest wearing and the safest we have ever used. In taxicabs and other commercial vehicles, they have given thousands of extra miles of trouble-free service . . . with important savings in down-time and maintenance costs.*"

Just why do these J-M Fleet Tested Sets stand up under the roughest kicking around a busy, hurried driver can dish out? Each is carefully produced from selected J-M Asbestos combined with new basic compositions . . . each has frictional characteristics carefully regulated to match the exact requirements of each particular make and model vehicle. Densely molded and finish-cured, they are not sensitive to changes in temperature or moisture conditions.

For maximum safety and savings, convert *your* vehicles to J-M Fleet Tested now! See your nearby J-M Brake Lining Distributor. Or write Johns-Manville, Box 14, New York 16, N.Y. In Canada: Port Credit, Ontario.

JOHNS-MANVILLE JM PRODUCTS

**JOHNS-MANVILLE**

## Nov. News Roundup

Continued from Page 272

**Super Service Motor Freight,** Nashville, Tenn., announces **Ray Carter** has rejoined the fleet as director of engineering.

**Roadway Express,** Akron, Ohio, has opened its new joint Washington, D. C.-Baltimore, Md., terminal at Laurel, Md. Included is a 600 sq ft shop with safety lane, eight repair bays plus parts storage.

### FACTORY FLASHES

**Echlin Mfg. Co.,** Branford, Conn., now includes a special cam rubbing block lubricant with every ignition point set and contact assembly.

**Octagon Process, Inc.,** Staten Island, N. Y. has set up a customer service department. It offers fleet operators help with cleaning and painting problems. For information, write Industrial Technical Service, Octagon Process, Inc., 15 Bank St., Staten Island, N. Y.

**American Viscose Corporation's** Fibers Division has made two new appointments. They are **Paul G. Woodward** as manufacturing coordinator and **Millard W. Redford** as manager of production planning. Both will be at company headquarters in Philadelphia.

**Sparton Automotive Division,** Sparton Corp., Jackson, Mich., has appointed **Cohn and Shane, Inc.,** Los Angeles, Cal., as sales representative in California, Nevada and Arizona.

**Hein-Werner Corp.,** Waukesha, Wis., recently opened new plant facilities in Ajax, Ontario. All Canadian production of Hein-Warner Jacks will be handled there.

**The Siberling Rubber Co.** has combined the service and mileage sales departments.

**Fruehauf Trailer Co.** has appointed **Donald Seal** as manager of the Albany, N. Y. trailer branch.

**Alan Wood Steel Co.,** Conshohocken, Pa., has appointed **James F. McCrudden, Jr.** as district sales manager in charge of the New York City office of the steel company.

**Highway Trailer Co.,** Edgerton, Wis., has appointed the **National Truck Equipment and Sales Corp.,** Youngstown, Ohio, as a new distributor for the company's products.

**Trailmobile, Inc.,** Cincinnati, Ohio, has appointed two new sales representatives. They are **Howard A. Concoby** for the Detroit, Mich. branch, and **J. Harris Chapman, Jr.** for the Birmingham, Ala. branch.

**A. E. Williams** has been appointed to the staff of **Brown Trailer Division,** Clark Equipment Co. He had been with Fruehauf Trailers for 28 years, most recently as a vice president.

**Guaranteed Parts,** Seneca Falls, N. Y., celebrated its golden anniversary of 50 years as an ignition parts manufacturer in the replacement industry.

**Electric Autopulse Division,** Walbro Corp., maker of Autopulse electric fuel pumps is moving from the Ludington plant to the headquarters of Walbro at Cass City, Mich.


**FOR MORE MILES PER TRUCK WITH LESS COST PER ENGINE...**

**Be TEST-SURE...PARTS-SURE with NIEHOFF ignition testing equipment and parts**

Fleet operators who figure costs with a sharp pencil know that Niehoff is a name they can trust.

They can trust Niehoff testing equipment—and the scientific accuracy with which it "puts the finger" on ignition troubles. Trustworthy, too, is the quality and engineering excellence built into every Niehoff ignition product...each is designed to deliver more hours between overhauls.

Maintenance efficiency is boosted by the Niehoff code book. And the Niehoff cabinet stock system means no high inventory cost.

*Call your Niehoff Jobber Now!*

**C. E. NIEHOFF & CO.**

**Main Office and Factory, 4925 Lawrence Ave., Chicago 30, Ill.**

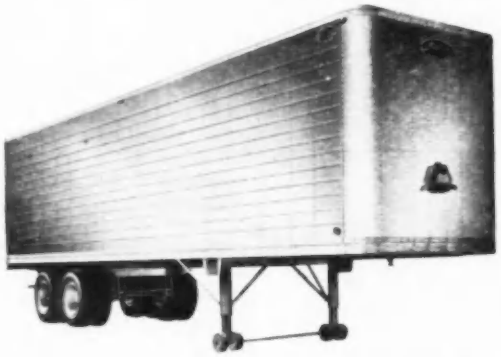
**WAREHOUSES:** 250 Brighton Ave., Boston 34, Mass.; 250 W. 54th St., New York 19, N.Y.; 1800 Fairmount Ave., Philadelphia, Pa.; 95 Pine St., N.E., Atlanta, Ga.; 2715 Main St., Dallas, Texas. **BRANCH:** 1330 W. Olympic Blvd., Los Angeles, 15, Calif.

**new designs...for '59...**

# TWO GREAT ALUMINUM VANS BY DORSEY

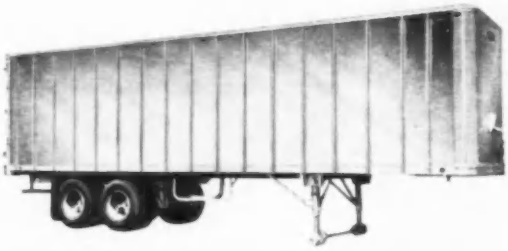
...with the right combination of ALL 4 profit-factors!

1 WEIGHT
2 PRICE
3 CUBE
4 STRENGTH



## the SATELLITE series

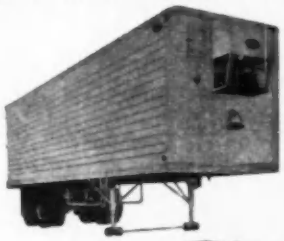
Body construction is entirely of heat-treated alloy aluminum and sides and front are solid-riveted into a fully-stressed Monocoque structure. A wide choice of options enables you to have your Satellites built just the way you want them at a price that will surprise you. Dry freight model (illustrated) weighs only 8,950 lbs in 35-foot model.



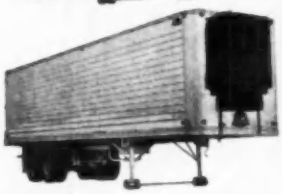
## the Vanguard

A new aluminum trailer of true Monocoque construction, the exterior-post Vanguard is designed for operators to whom economy is important, and whose equipment must stand rough treatment. It has the right combination to reduce the cost per-ton-mile for depreciation, maintenance and financing. And this extra tough trailer weighs only 8,800 lbs in 35-foot model!

## ...and these profit leaders round out Dorsey's complete line

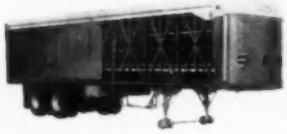


SATELLITE PRODUCE VAN
Features new "Strate Flo Chilling" for maximum produce protection.

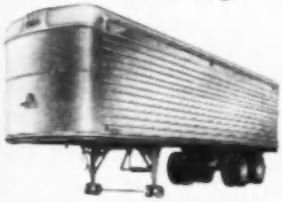


REFRIGERATOR VAN
Satellite Monocoque construction and "assembly line insulation" combine for outstanding performance.

SUPER FURNITURE VAN
2,605 cu ft in 35-foot model. Inside width: 91½". Inside Height: 98-125". Standard Models also available.

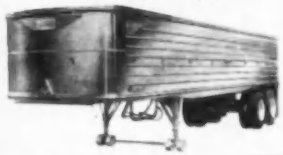


LIVESTOCK VAN
Engineered for maximum livestock protection. Converts easily to dry freight van for profitable backhauls.



CHAMPION VAN LINE
Stressed skin and full X-braced construction. Dry freight, produce and refrigerator models.

GIANT PLATFORM
With its 18" main frame, the Giant is America's No. 1 platform. Weight: 8,280 lbs. (32-foot Model)

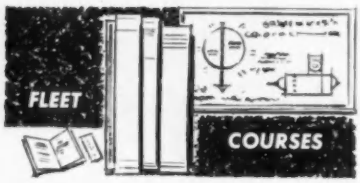


CHAMPION GRAIN TRAILER
Ruggedly engineered for maximum payloads. Bulk Fruit models also available. Weight: 8,500 lbs. (32-foot model).

"HONEST WEIGHT" TAG: Every Dorsey is weighed when it comes off the assembly-line, and its scale weight is stamped on a permanent metal tag which is affixed to the trailer frame.

**DORSEY TRAILERS**
**ELBA, ALABAMA**

DORSEY




HERE is an up-to-date calendar of fleet training courses for 1958-59. For complete addresses to write to for further information about the courses listed, see the Fleet Course Directory in the Association Directory section beginning on page 115 of this issue.

### Driver Training

North Carolina State College—One month long courses beginning Nov. 24, '58.

### Driver Trainer

Pennsylvania State University—Sept. 28-Oct. 2.

### Fleet Maintenance

University of California — March 11-13 (Los Angeles), 18-20 (Berkeley). (Both are conferences.)

University of Washington—March 23-25 (Conference).

Pennsylvania State University—Apr. 27-May 1.

### Fleet Operation

Fleet Operation courses usually meet one night a week for 10 or 12 weeks. Starting date, where known, is indicated below. City shown in parentheses is where course will be held.

Syracuse University (Syracuse, N. Y.)—Feb. 11.

Northwestern University (Evanston, Ill.)—Feb. 23.

West Virginia State College (Institute, W. Va.)—February.

### Fleet Supervisor

University of Alabama—Jan. 19-23.

University of Utah—Feb. 9-13.

University of California (Los Angeles) — March 9-10, (Berkeley) — March 16-17. (Both are Conferences.)

University of Oklahoma—March 23-27.

University of Washington—Apr. 6-10.

Northwestern University—June 22-26.

### Top Management Conference

Pennsylvania State University — May 7-8.

### Terminal Management

University of Oklahoma—January.

Pennsylvania State University — Oct. 5-9.

### Evening Courses

The following evening courses are offered by Northeastern University, Boston, Mass. Most of them meet one night a week. Dates show beginning and end of course.

Transportation Practices—Jan. 27-May 19.

Current Transportation Problems—Jan. 26-May 18.

Motor Carrier Operations—Jan. 27-May 19.

Terminal Operations—Jan. 29-May 21.

Traffic Management—Jan. 27-May 19.

Freight Claims for Loss and Damage—Jan. 29-May 21.

---

**Truck Dispatcher: "How about some old fashioned loving?"**

**Cute Redhead: "All right. I'll call grandma!"**

**DISTRIBUTORS WANTED!**
Send coupon now for full details of profitable AMALIE Pennsylvania Oils and Lubricants proposition. Superlative quality products — comprehensive merchandising program.
**CHOICE TERRITORIES!**

**AMALIE DIVISION**
**L. Sonneborn Sons, Inc.**
**Franklin, Penna.**
**Please send me full details on AMALIE Pennsylvania Oils and Lubricants.**
**Name** _____
**Address** _____
**City** _____ **Zone** ____ **State** ____

## 5 big reasons why fleet owners prefer*

# Dayton Wheels and Brake Drums

**1. Greater strength . . .** Dayton Wheels have hub and spokes cast in one piece. Girder-like design and precision machining mean added strength, longer wheel life and minimum maintenance.

**2. Lighter weight . . .** Dayton Spoke Type Cast Steel Wheels are pounds lighter than other types. This reduction in dead weight permits a profitable increase in payload.

**3. Cooler operation . . .** fanning action of Dayton's spoke type wheel circulates fresh air between inner wheel rim and brake drum to keep brakes and tires degrees cooler—reduces brake wear and fade, increases tire mileage.

**4. Minimum maintenance . . .** exclusive clamping device and rigid studs hold wheel rim firm, even under rugged off-the-road conditions . . . Ease of mounting of tires on demountable rims and resultant perfect alignment reduce maintenance cost.

**5. Perfect brake drum and wheel alignment . . .** wheels and brake drums become a "wedded" unit by an exclusive Dayton machining process. Brake drums are machined *on the wheel* to provide an absolute alignment of the two. True running and long life is the result.

***Like to have the complete money-saving story?***

Just write for your free copy of the complete Dayton Wheel and Brake Drum catalog. Send for it today!

*Over twenty of the nation's leading truck and trailer manufacturers use Dayton Cast Steel Wheels as standard equipment.

## DAYTON WHEELS

by The Dayton Steel Foundry Co. · P.O. Box 1022, Dayton 1, Ohio

*World's leading manufacturer of cast wheels and brake drums*

## *It's Capped with*
# MOTRUCK Tread Rubber

**It's made for truck tires.**
An exclusive *new* formula, developed especially by Mohawk for the severest service conditions. Made from the finest materials, *including the new, finer particle carbon blacks*, Motruck is a tread rubber that has an amazingly slow rate of wear, remarkable resistance to cuts, snags and chipping.

**New lower costs per mile.**
Regardless of your driving conditions, Motruck will bring you important new cost savings. A *fourth* or more additional miles between recaps! Less downtime for repairs. Less investment in new tires.

**Prove Motruck on your own trucks.**
Tell your retreader to use Motruck on the next tires he recaps for you. Compare the wear, the extra miles of trouble-free service. You'll quickly agree Motruck is well worth the few pennies extra it costs.

MOHAWK

THE MOHAWK RUBBER COMPANY
Plants In: Akron, Ohio • Helena, Ark. • Stockton, Calif.

Recognized by retreaders everywhere for finest quality tread rubber and repair materials.

**Diamond T specifications folder** shows in color the lightweight 922 Series Diesel. Shown are the various Cummins engines available, transmissions and rears and optional aluminum components for lighter weight. The 922 Series is available in models with GCW ratings from 65,000 lb to 76,000 lb. Write to Diamond T Motor Truck Co., 4401 W. 26th St., Chicago 23, Ill. Copies are free.

**General Records Poster** is described in Brochure No. S-533 from Royal McBee. The device handles all applications from Accounts Payable to Payroll and General Ledger. Transcribing is eliminated. Write to Royal McBee Corp., Port Chester, N. Y.

**Spark plug pressure indicator bulletin** shows the SLM Spark Plug-Pressure Gage Combination. It shows engine compression and firing pressures. Ask for Bulletin No. PPI-106 from the Kistler Instrument Corp., 15 Webster St., North Tonawanda, N. Y.

**Automatic transmission manual** covers all types of automatics made since 1940. It is well illustrated and contains codes and instructions to make parts identification 100 per cent positive. Thompson parts numbers are included. Write to Thompson Products Service Sales Division, 23555 Euclid Ave., Cleveland 17, Ohio.

**Reo Model folder** shows the entire line of Reo trucks. Complete specifications as well as optional equipment are shown. Included are gasoline and diesel models, COE's, tandems and school bus chassis. Pick up a copy from your local Reo dealer or write to Reo Division, White Motor Co., Lansing 20, Mich., Request Form No. 3547.

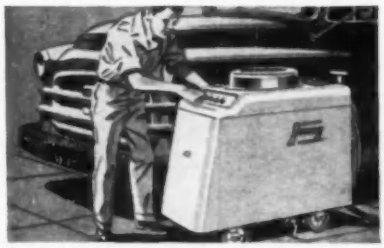
**Line construction body bulletin** shows the York-Hoover Model No. 5696 Combination body. The unit is designed for light line work, maintenance and general service. Construction and utility fleets should get a copy by writing the York-Hoover Corp., Body Division, York, Pa. Request Bulletin No. 946.

(TURN TO PAGE 280, PLEASE)

# ...and rust-proof it, too, with Jenolizing!

Imagine increasing your trucks' payloads 400 lbs. in less than an hour! That's what Hypressure Jenny Steam Cleaner can do by removing caked-on, fire-feeding grease and dirt from engines, chassis, wheel housings, axles, and fifth wheels. What's more, new Jenolizing instantly stops rust that usually follows ordinary steam cleaning!

**Here's how easy it is with Jenny® and Jenolizing!**



**1.** Hook up your model 1250 Hypressure Jenny—in one minute you are ready to begin Jenolizing.

**2.** Direct Jenny vapor spray against grimy, dirt-clogged areas — watch grease and soil melt away like snow!

**3.** Spray rust-preventive Protect-O-Gloss over engine and other vital parts —you're ready to roll; pounds lighter!

**You can put Jenny and Jenolizing to work on time-payment plan for as little as $30.60 a month! Write today for more information, and a free demonstration.**

***Based on only five loads a day!**

hv

**HOMESTEAD VALVE MANUFACTURING COMPANY**
Hypressure Jenny Division, P.O. Box 90, Coraopolis, Pa.

**MAIL FOR DEMONSTRATION**

Send me more facts about Jenny and Jenolizing, and the name of my local Jobber.

Name.....Title.....

Company.....

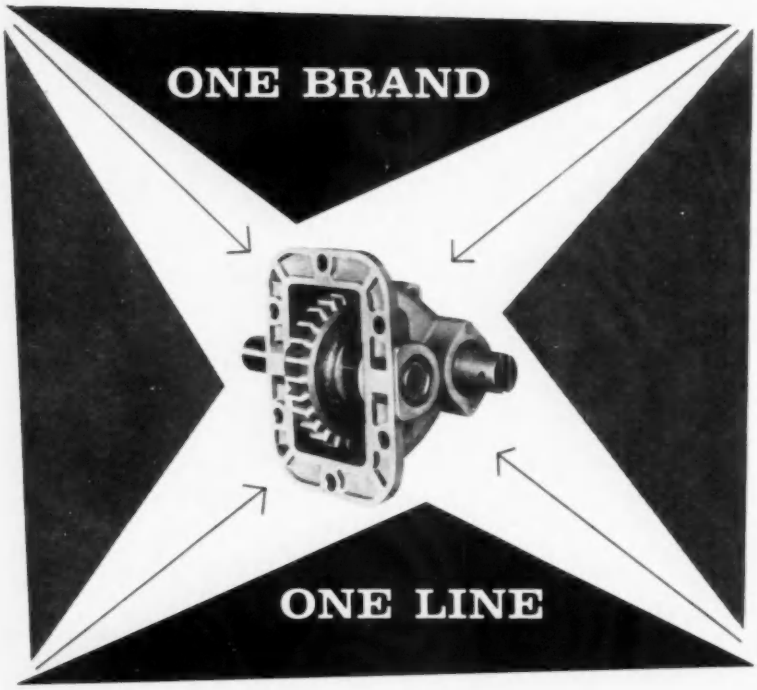
Address.....

City.....Zone .....State.....

☐ Send me Time-Payment information

### Bottom-Dump Coal Hauler

**This bottom-dump coal hauler is one of six of the largest aluminum trucks in the world. The units, owned by Aluminum Company of America, are leased by Squaw Creek Coal Co. to move coal to a tipple for processing for Alcoa's Warrick, Ind., power plant. General American Transportation Co., Chicago, built the mammoth trailers. Each measures 37 ft long, 11 ft wide, and 9 ft deep. Each holds nearly 60 tons of coal. Tractor is powered by a Cummins 335 hp diesel. Tires are 28 ply, measure over five ft in diameter.**




*COMPLETE line for all applications*

TULSA® POWER TAKE-OFFS

The complete line of Tulsa Power Take-Offs means one brand — one inventory — of highest quality, top performance power take-offs. Our ten series — and the many models within these series — provides a power take-off for all types of work and for most transmission applications. Application information for all trucks is revised annually—or more often when necessary — and is available when new truck models are released. For a complete line — with maximum interchangeability — it's Tulsa Power Take-Offs!

**Tulsa Winch**

DIVISION OF VICKERS, INCORPORATED • TULSA, OKLAHOMA


## Mfrs. Literature

Continued from Page 278

**GM Diesel directory** contains complete listings of authorized GM Diesel service outlets in the U. S. and Canada. It is called "Pocket Directory of GM Diesel Service Outlets," and is available from GM Diesel distributors and dealers, or by writing Detroit Diesel Engine Div., General Motore Corp., Detroit 28, Mich.

**Bostrom seat catalog** has pictures as well as text to explain the company's line of truck, tractor and earth moving equipment seats. Get a copy by writing Bostrom Corp., 133 W. Oregon St., Milwaukee 4, Wis.

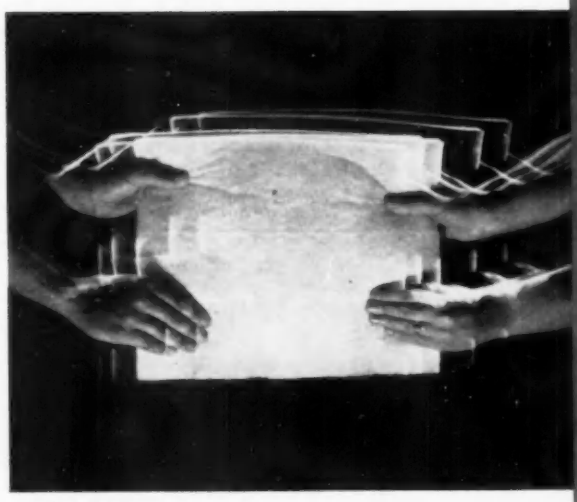
**Lubrication brochure** explains the special requirements needed of lubricants used in construction and similar heavy duty equipment. The brochure is available from the Lubriplate Division of Fiske Brothers Refining Co., 129 Lockwood St., Newark 4, N. J. Ask for Form No. CFT-58. It's free.

**Adjustable storage racks** are described in an illustrated brochure from Palmer-Shile Co., 15987 Fullerton St., Detroit 27, Mich. Pictures show the wide range of applications where the racks can be used in storing automotive parts, piping, etc. Copies are free at the above address.

**Petroleum transport tanks** are described in a bulletin from Aeroil Transport Co. Write the company at No. 7 Wesley St., South Hackensack, N. J. Specify Bulletin No. T-T-B-17.

**Utility tractors** are described and illustrated in a booklet from Allis-Chalmers. Model Nos. D-14 and D-17 are shown in detail including the wide range of accessory equipment available. For a free copy, write to Utility Tractor Div., Allis-Chalmers Mfg. Co., Box 512, Milwaukee 1, Wis. Ask for Booklet No. UT-105.

# Try these 3 tests with Pittsburgh Superfine Fiber Glass Insulation



**PULL IT**—see how strong Pittsburgh Superfine is! It's built to last wherever you install it. It retains this same strength indefinitely. Won't disintegrate or rot with age.

**PRESS IT**—and see how it returns to its original shape. You can compress Pittsburgh Superfine for long periods of time, yet it will always spring back to its former shape!

**GIVE IT A BEATING**—and see how Pittsburgh Superfine absorbs the shock, and comes back. Pittsburgh Superfine loves rough handling.

**PITTSBURGH SUPERFINE FIBER GLASS** is great for insulating against heat or cold or noise. It's lightweight, cuts easily to correct size . . . is rot-proof, fire-resistant . . . handles easily, avoids skin irritation . . . saves installation time. Try it!

For complete information on Pittsburgh Superfine, call your nearest PPG Sales Office, or write to *Pittsburgh Plate Glass Company, Fiber Glass Division, One Gateway Center, Pittsburgh 22, Penna.*

**PITTSBURGH SUPERFINE INSULATION IS A PRODUCT OF THE FIBER GLASS DIVISION OF PITTSBURGH PLATE GLASS COMPANY**

Sales Offices are located in the following cities: Charlotte, Chicago, Cincinnati, Cleveland, Detroit, Houston, Los Angeles, Minneapolis, New York, Philadelphia, Pittsburgh and St Louis

75th ANNIVERSARY 1883—1958

SYMBOL OF SERVICE FOR SEVENTY-FIVE YEARS

PITTSBURGH PLATE GLASS COMPANY

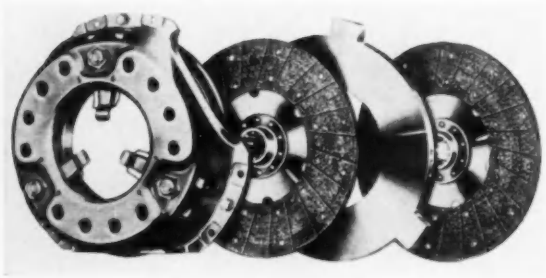
# NEW PRODUCTS

DESCRIBING RECENTLY ANNOUNCED PRODUCTS AND EQUIPMENT OF INTEREST TO MEN CONCERNED WITH TRUCK, BUS AND CONSTRUCTION FLEET MANAGEMENT

## Vehicle Component Testing Kit

*from Magnaflux Corp.*
*7300 West Lawrence Ave., Chicago 31, Ill.*

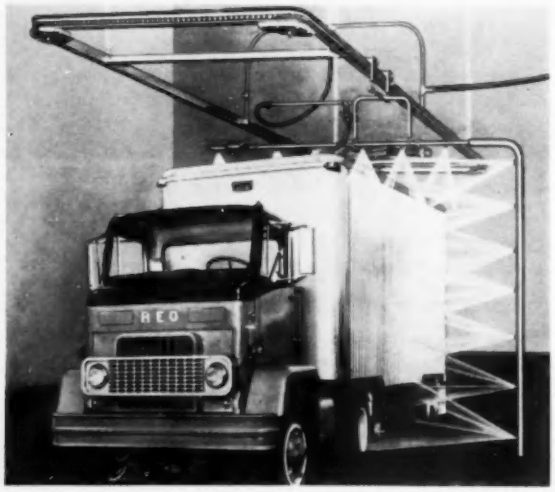
is a magnetic-particle type unit to detect cracks in such vehicle components as blocks, spindles, cakes, axles, frame members and welds. Kit can be used in the shop or in the field, operates on 110-volt current from shop outlet or small portable generator. Designed for one-man operation, the Model No. YL-51 kit consists of magnetizing coil, two-pole yoke, "Magnaflux" powder and dispensers, power cords and carrying case. It weighs 45 lb complete.



## 12-in. Two-Plate Direct Pressure Clutch

*from Clutch Division Lipe-Rollway Corp.*
*806 Emerson Ave., Syracuse 1, N. Y.*

is designed for truck, tractor, bus and industrial use. The two-plate DPB model has intermediate plate of close grain, high tensile iron to resist warpage. Lug-type center plate gives more driving area. Driving pin alignment is eliminated. Compression type spring gives positive retraction of intermediate plate during disengagement. Clutch is available with rigid or dampener-type driven disc assemblies. Facing area is 298 sq in. with unit pressure up to 25.9 psi. Maximum release bearing load is 470 lb at full release.




## Truck Washers

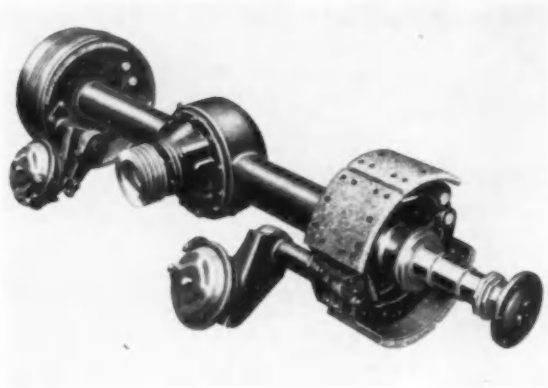
*from Wohlert Corp.*
*Lansing 5, Mich.*

come in nine different models. Two are car washers with one coming equipped with frame. One is a postal-type adjustable model for vehicles up to 25 x 8 ft. Six are truck washers with 25 x 8, 30 x 8, 35 x 8, 40 x 8, 45 x 8 and 50 x 8-ft capacities. Wohlert says it takes about a day for a factory expert plus one man to install the truck units.

## Live Trailer Axle

*from Transmission & Axle Division*
*Rockwell-Standard Corp.*
*Detroit 32, Mich.*

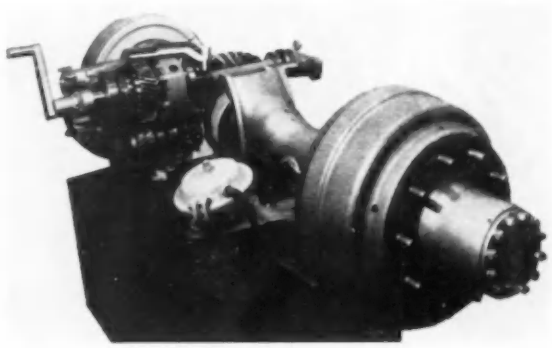
is designed to power mobile refrigeration units. The new Model No. TKP-500 consists of a high production gearset incorporated as an integral part of the TK-500 Series trailer axle.



## Tandem Drive Axle

*from Axle Division, Eaton Mfg. Co.*
*Cleveland, Ohio*

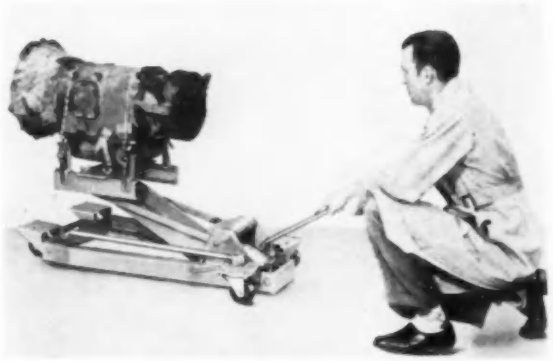
is offered in 2-speed, double-reduction or single-speed design in two bogie capacity ratings—34,000 and 38,000 lb. GVW rating is 44,000 lb for the 34 Series and 49,000 lb for the 38 Series. Single-speed ratios are 4.875, 5.57, 6.14, 6.5 and 7.17. Two-speed ratios are 4.875/6.65, 5.57/7.60, 6.14/8.38, 6.5/8.87 and 7.17/9.77. Double reduction ratios are 6.65, 7.60, 8.38, 8.87 and 9.77. Double reduction models have planetary gears. Manual or power-operated differential lock-out is available.



## Hydraulic Transmission Jack

*from Weaver Mfg. Co.*
*2166 South 9th St., Springfield, Ill.*

has 2000-lb capacity, is designed for transmissions, torque converters and differentials. Saddle tilts to side 11 deg. each way. Forward tilt is 22 deg and backward 14 deg. Other features of the Model No. WA-87 include low silhouette, high lift and large caster wheels.

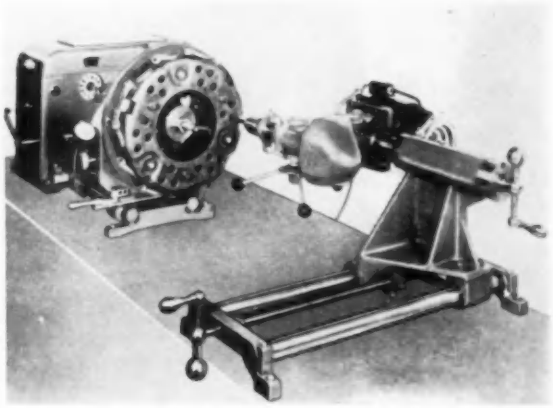


## Clutch Balancer

*from Bear Mfg. Co.*
*Rock Island, Ill.*

has a drill attachment. The Model No. 354-BR is designed so clutches are mounted on master adapter plates jig bored for accuracy. Quick acting, split nut holds clutches on hardened and ground pins during balancing. Dial indicator registers amount of unbalance with a strobe light indicating the position. When drilling to correct the unbalance, special backing plate is used to lock-out the pick-up mechanism.

(TURN TO NEXT PAGE, PLEASE)



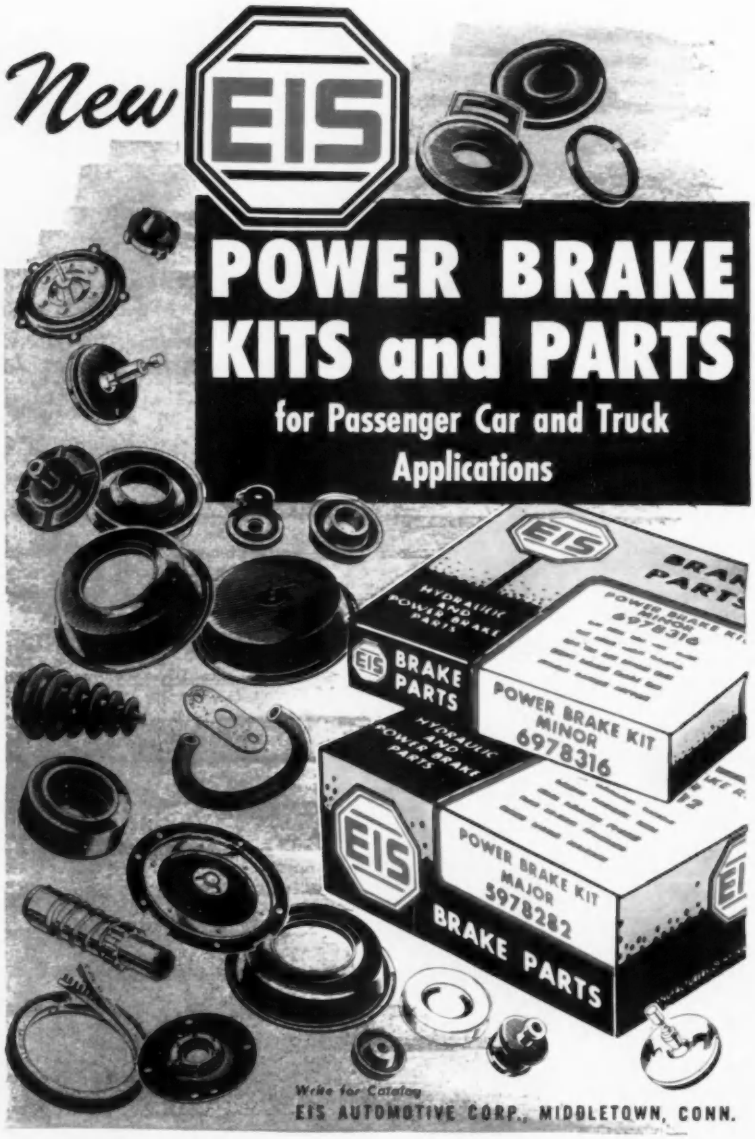
# New Product Descriptions

Continued from Page 283

## Colored Tarpaulins

*from Reeves Bros., Inc.*
*1071 Avenue of the Americas*
*New York 18, N.Y.*

are made of Hypalon-coated nylon. Hypalon is a synthetic rubber with the ability to be finished in a wide range of colors. For example, Burlington Truck Lines is using the new material in a bright red color. Maker says the material is sun, acid and oil resistant. It has cemented seams that can be repaired in the fleet shop with sandpaper, cleaning fluid, cement and talcum powder.




## Trailer Hitch

*from Premier Mfg. Co.*
*Portland, Ore.*

is air adjusted. The new Model No. 170 is a heavy duty, solid pintle type coupling with an air-actuated adjusting shoe to eliminate play between the pintle and trailer eye. It has a double lock for safety, fits a 2½-in. drawbar eye. It has 100,000-lb breaking strength, weighs 26 lb.

## Alternators

*from Leece-Neville Co.*
*1374 East 51st St.*
*Cleveland 3, Ohio*

feature silicon rectifiers instead of usual selenium rectifiers. They give longer life and reduce maintenance, says Leece-Neville. Another benefit is

that the smaller size permits the rectifier to be combined with the alternator, resulting in a two-component system—alternator and regulator.

## Bus Seat

*from American Seating Co.*
*Grand Rapids 2, Mich.*

has foam backs and cushions with removable covers. Tapered back gives greater aisle width at headrest level. Arm rests are foam rubber padded.

Seven positions of recline are offered instead of four as on previous models. Aisle legs and arm supports are satin chrome finish. Back is recessed to give greater knee room without increase in seat spacing.

(TURN TO PAGE 286, PLEASE)

# Meet a beautiful new fleet car built to save you money... PLYMOUTH '59

*NEW MODELS* . . . now 29 gorgeous new Plymouths to pick from in 3 smart lines. Everything from flattering Sport Fury models to money-saving Savoys.

*NEW ECONOMY* . . . new 3-stage carburetor and Fuel-Saver Choke. new economy and durability features throughout to keep you comfortably "under budget."

*NEW LUXURY* . . . stunning new styling inside and out to reflect your company's good taste. Wins compliments today, trade-in dollars tomorrow!

*NEW POWER* . . . New Golden Commando 395 for peak performance. Fury V-800 (two-time Mobilgas Economy Run Champ) or PowerFlow 6 for peak economy.

*NEW COMFORT* . . . famous Torsion-Aire Ride *at no extra cost.* Or optional new Constant Level Torsion-Aire to keep your cars always level under stress loads.

*NEW FEATURES* . . . new Instant Gas Heater delivers warm air in just 30 seconds. New Swivel Seats boost driver morale, impress customers. New Mirror-Matic rear-view mirror automatically dims headlight glare from following cars. All new, exciting Plymouth options ready for you!

*The fleet's in—see your Plymouth dealer today! Get the complete story on the car that's today's best fleet buy . . . tomorrow's best fleet trade . . .*

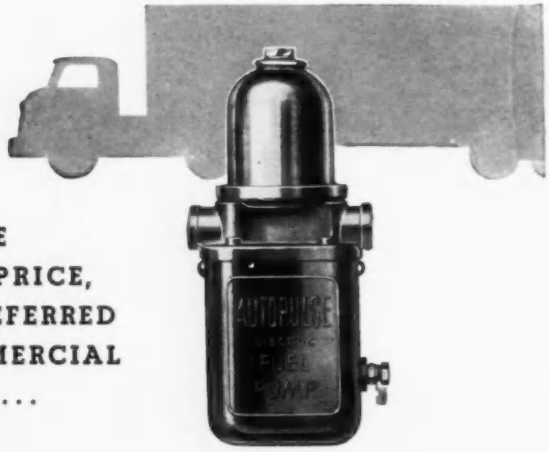
Plymouth

### Trucks Serve Trucks

**RCA's Service Co. makes on-the-spot repairs to two-way radio equipment of the Olson Transportation Co. Walk-in type trucks are equipped with test and repair facilities, and spare parts. Licensed technicians use them in providing 24-hr service to customers in the Chicago area.**

**AUTOPULSE**

## "The Old Reliable"




**STILL THE LOWEST PRICE, STILL PREFERRED BY COMMERCIAL HAULERS...**

Operators of commercial vehicles, in the Americas and overseas, know that Autopulse can be relied upon to keep loads moving no matter what the temperature or altitude. As long as there's gasoline in the tank, Autopulse delivers it to the carburetor.

Both vapor lock and starvation are unknown, with Autopulse. This has been true for 30 years.

Quickly available, simple to install, completely reliable in performance, Autopulse – the original Electric Fuel Pump – is available everywhere.

No electric fuel pump comes even close to the low price of Autopulse.

Electric
**AUTOPULSE** Division
WALBRO CORPORATION
Cass City, Michigan


## New Products

Continued from Page 284

### Scotch Blocks

*from Ernest Holmes Co.*
*Chattanooga, Tenn.*

are designed to prevent or retard wrecker movement under adverse weather conditions or on slippery surfaces. They are L-shaped, metal and

17 in. wide. They fasten to wrecker through chains and easily-mounted hooks. Hardened metal teeth dig into surface when weight is applied.

### Tire Repair "Rivets"

*from Fromberg, Inc.*
*Maywood, Cal.*

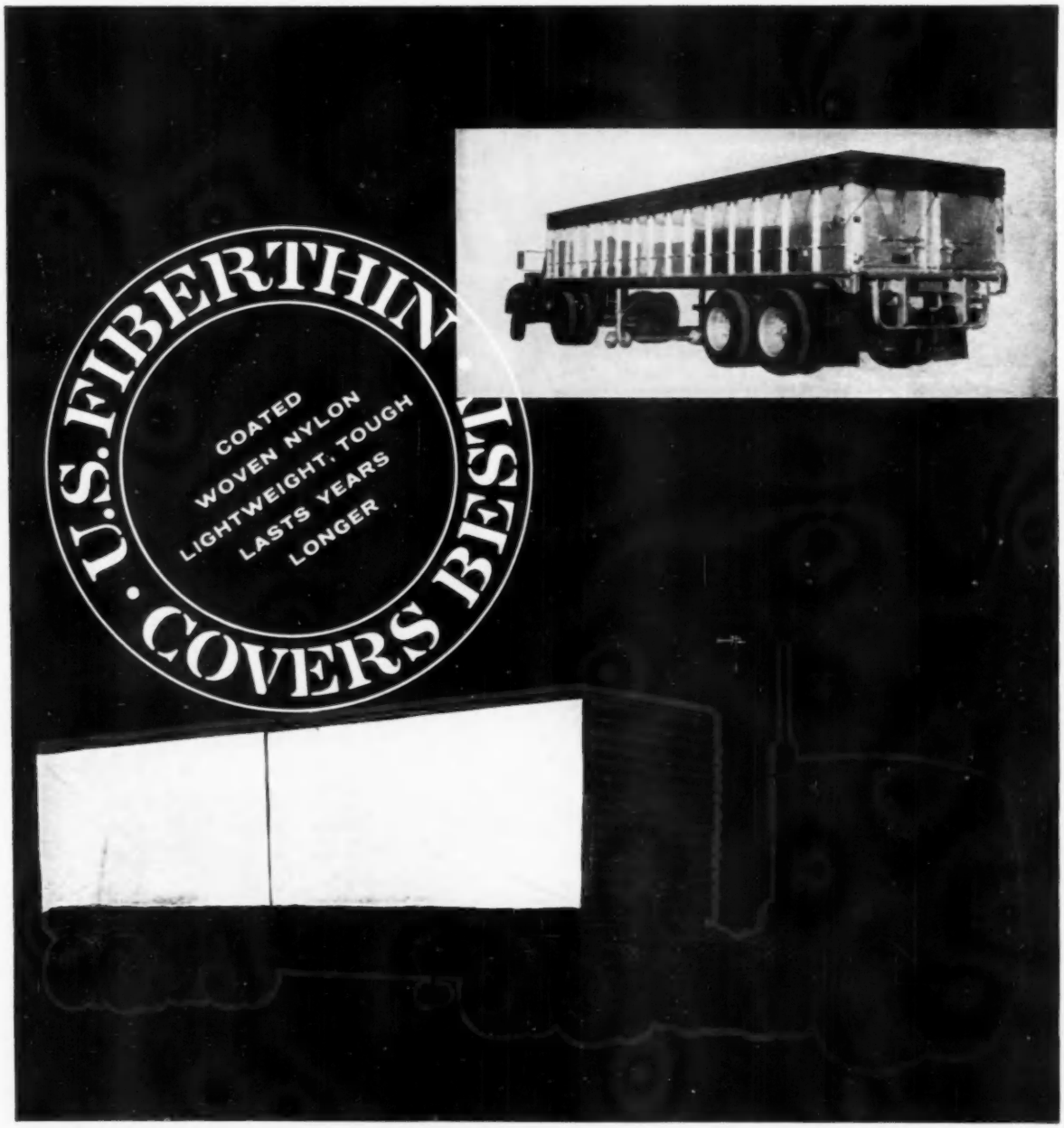
are factory-packed in metal sleeves under 20,000 lb pressure. For use on tubeless tires, a special cement is applied to the puncture hole, sleeve with rubber "rivet" is pushed into hole with a gun, and then sleeve is withdrawn by gun permitting "rivet" to expand. Expansion potential, says the maker, is three times its sleeves circumference.

### Gasoline Cap

*from Stant Mfg. Co.*
*1620 Columbia Ave.*
*Connersville, Ind.*

is a push-on, locking-type model. The new Model No. G-80 is for standard 1½-in. ID filler neck. Of all die cast construction, it has electroplated finish of copper, nickel and chromium.

(TURN TO PAGE 290, PLEASE)




## DURABLE U. S. FIBERTHIN® TARPS SHED WATER . . . KEEP TRUCK WEIGHT DOWN!

Leading truckers are fast finding out the many ways tough U.S. Fiberthin tarps save money—by cutting costs and increasing pay loads. U.S. Fiberthin is so extremely light in weight, you carry more pay goods to start. It can't soak up water-weight so you don't have to allow for this extra load. And you save on make-ready time because easy-to-handle U.S. Fiberthin takes less man power to work on and off. Made of ribbon-like threads of nylon, coated on both sides with neoprene especially developed for truck tarp usage, this amazing covering material outlasts ordinary tarps. It is far superior in tear strength . . . resists all kinds of weather . . . will not mildew even when stored wet . . . fights off flames, oils, acids, alkalies, salt water. For information about U.S. Fiberthin truck tarps, curtains, loading dock canopies, write United States Rubber, Mishawaka, Indiana.

**United States Rubber**

Mishawaka, Indiana

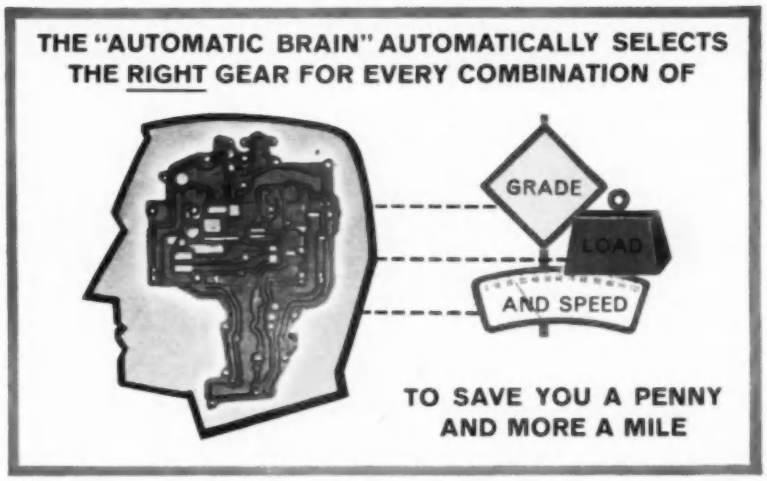
# The "*Automatic* can save you a and more

*Now available in* DODGE FORD *and* CHEVROLET GMC

- New Jersey Sand Hauler Saves $700 a Year on Axles and Clutches
- Midwest Car Hauler Saves One Trip out of 5 by Increasing Payload
- Chicago Fleet Operator Saves $250 a Year on Clutch and Brake Repairs
- Utah Ore Hauler Saves 75% on Brake Maintenance
- Rocky Mountain Trucker Saves 50% of Engine Repairs

*Allison*

# Brain" a mile




## *– the Allison Fully Automatic Truck Transmission pays for itself within the first 12 months of operation*

THE most obvious fact about a Chevrolet, Dodge, Ford or GMC truck equipped with the Allison Automatic Transmission is that it practically drives itself.

But that's not the most important fact—not by a long shot.

For this transmission with the "Automatic Brain" can save you a penny and more a mile on your truck operating costs—and truckers' records from all over the country prove it.

### How The Money Rolls In

The Allison Automatic rolls up these savings because its "Automatic Brain" *automatically* selects the right gear for every load, grade and speed. It completely eliminates engine lugging, shock-load damage to chassis and drive line components, engine-disconnect clutch repair and replacement. And its built-in hydraulic retarder saves service brakes for everything but full stops.

The results? 33⅓% longer engine life, 18% reduction in average trip time, longer-lasting axles and differentials, brake linings that last 50% longer.

But that's not all. You also get greater fuel economy with the direct-drive lockup in every forward gear, extra tire mileage from the smooth transmission of power to the tread, big savings in driver recruitment and training, improved safety records, too.

Estimate your own savings — and see how you'll save every mile.

You can get the transmission with the "Automatic Brain" in Chevrolet, Dodge, Ford or GMC medium and heavy-duty trucks, tractors, school buses and other special-purpose vehicles. It's also available as an integrated engine-transmission power plant with Chrysler and Ford industrial engines.

Get the full story on how you can save a penny and more a mile with the Allison Fully Automatic Truck Transmission from your Chevrolet, Dodge, Ford or GMC truck dealer, or write:

**ALLISON DIVISION OF GENERAL MOTORS, Indianapolis 6, Indiana**

**FULLY AUTOMATIC TRUCK *Transmissions***

## New Products

Continued from Page 286

### Oil Filter Kit

*from Purolator Products, Inc.*
*Rahway, N.J.*

is available for Volkswagens. Kit No. 493 is installed without drilling holes in engine for fittings. It increases oil requirement one quart, uses a Model No. P-70FF refill filter.

### Axle Stabilizer

*from Reynolds Mfg. Co.*
*Springfield, Mo.*

can be added by fleet shops to the Reyco 21 Series tandems. It is also available on Reyco 30 Series suspensions. It features adjustable torque

arms for right side, rigid torque arms for left side, axle attachments for tubular or I-beam axles. Reyco says it eliminates axle hop, cuts stopping distance up to 50 per cent.

### Transmission Tools

*from The New Britain Machine Co.*
*New Britain, Conn.*

are available to make all band and throttle linkage adjustments on automatic transmissions. New tool board is available as a unit or separate tool boards with band adjustment or throttle linkage adjustment tools only.

### Generator Tester

*from Sun Electric Corp.*
*Harlem and Avondale Aves.*
*Chicago 31, Ill.*

handles 6 and 12-volt generators and regulators including double contact types. It has a 230-volt, 60-cycle, 1-phase constant speed motor with variable speed drive. Meters are large

and easy to read. Generator mount is with a chain vise and regulator mount is rubber-cushioned.

(TURN TO PAGE 292, PLEASE)

### Chevy's El Camino

**A light truck with passenger car styling has been introduced by Chevrolet for '59. Called the El Camino, it can carry loads up to 1150 lb in its 32½ cu ft box. A heavy steel floor section has built-in skid strips and overlaps a ribbed and embossed sub-floor supported by four steel cross members. Side panels and tailgate are double walled. The El Camino is offered with both six and V-8 engines, and with three-speed manual transmission, overdrive, Powerglide or Turboglide automatic transmissions. It is offered in 13 solid and 10 two-tone color combinations.**


**LIFTS — CLUTCHES — SPREADS**
**TIRES THRU 14:00-24" 20PLY**

**BRANICK HEAVY DUTY "EF-ERT-LESS" TIRE SPREADER**

**WITH THE AIR-OPERATED TIRE LIFT**

**BUILT TO SPREAD THE HEAVY PLY AND WIRE CORD TIRES FOR—**

- **INSPECTION**
- **REPAIRING**
- **INSTALLING & REMOVING**

**TUBES—FLAPS—AIR BAGS—INSIDE CURING RIMS**

**POWERFUL • SAVES TIME • SAVES LABOR CONVENIENCE • RUGGED**

The new powerful HEAVY DUTY "EF-ERT-LESS" Tire Spreader handles tires up thru 14:00-24" 20 ply quickly and easily. SAVES TIME as it Lifts, Clutches and Spreads heavy tires for inspection and repair in seconds. Proving to be a real LABOR SAVER, the Heavy Duty raises tire to spreader arms, by tire lift and air valve control. The power from the large cylinder spreads entire casing wide open CONVENIENTLY, so entire casing is free to revolve while spread. The strong welded steel construction, provides for rugged heavy duty use for years to come. Write for prices today.

**WRITE TODAY FOR OUR NEW COMPLETE CATALOG**

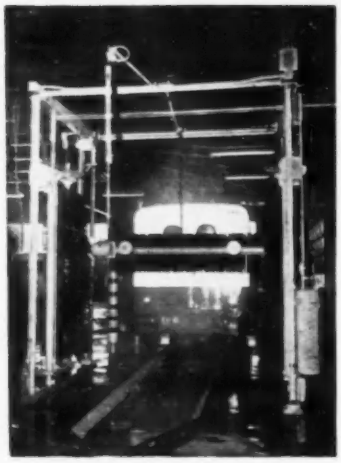
**BRANICK MFG. CO., INC.**

***World's Largest Manufacturers of Tire Handling Equipment***

**FARGO NORTH DAKOTA**

# Master FLEET LOW COST WASHER

## AUTOMATIC BUS AND TRUCK WASHER



WASH TOP AND BACK AUTOMATICALLY

**NOW ONE MAN CAN WASH 80 TO 100 UNITS PER DAY**

A MODEL FOR EVERY FLEET

*Prices Start*

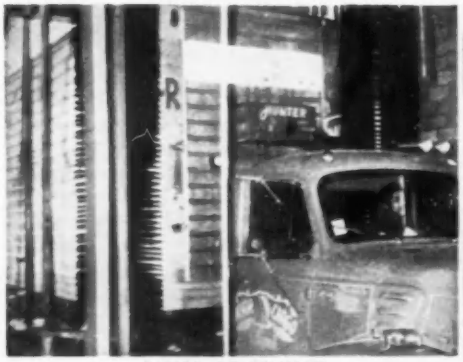
**$1995.00**

*F.O.B. Chicago, Ill.*
*Subject to Change*

**WE BUILD AN AUTOMATIC WASHER TAILORED TO YOUR FLEET REGARDLESS OF SIZE**

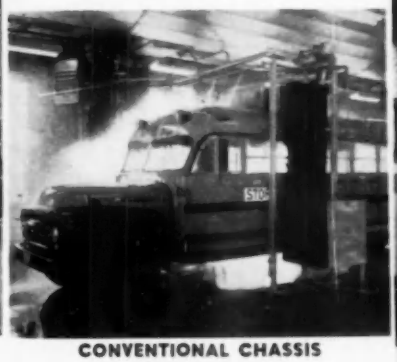
***THE LOWEST PRICED FULLY AUTOMATIC TRUCK WASHERS IN THE WORLD***

SWINGING ARMS



PANEL OR TRAILER

FIXED BRUSHES—MOD. 100



CONVENTIONAL CHASSIS

HEIGHT DETECTOR

TOP & SIDE

**YOU GET MORE and PAY LESS for MASTER FLEET WASHERS**

---

***Gentlemen: We are interested in the following information:***

- ☐ A FREE ANALYSIS OF OUR WASHING NEEDS.
- ☐ A QUOTATION.
- ☐ A FREE SURVEY OF OUR FACILITIES.
- ☐ HAVE REPRESENTATIVE CALL TO DISCUSS OUR PURCHASE OF A LOW COST MASTER FLEET WASHER.

Company Name _____

By _____ Title _____

No. and Street _____

City _____ Zone _____ State _____

**ACME EQUIPMENT, INC.**

**CENTRAL-TRUST-BLDG.**
**DEPT. CCJ-1158 ALTOONA, PA.**

**SALES AND SERVICE THROUGHOUT THE UNITED STATES AND CANADA**

**Some valuable territory still available for aggressive distributors.**

### Trash Collector

An hydraulically-operated lifting and dumping unit made by the Cobey Corp., Galion, Ohio, hauls individual steel containers to the dump and returns them for refilling. One truck can service a number of containers. Raising, dumping and lowering are all controlled from the cab.

**REPAIR**
**Truck Tubeless Tire**
**PUNCTURES**
*Permanently Safe!*

*Approved*
BY FLEET OWNERS EVERYWHERE!

**DILLECTRIC**
"DEEP-CURE" VULCANIZED REPAIRS

**Always use this SAFE SURE Method**

1 BUFF injury area thoroughly to completely remove all graphite mica and soap lubricants. Do not buff through liner.

2 LUBRICATE puncture hole with Pressure-Lube Gun and insert Filler Rubber with Threading Tool to seal and prevent moisture from entering puncture hole and deteriorating fabric plies.

3 APPLY "Dillectric" Nylon Patch over injury and vulcanize repair with Dillectric No. 6685 and "U" Clamp.

**Order No. 6691-G**
**DILLECTRIC "U" CLAMP OUTFIT**

Includes truck tire "U" Clamp with secondary and ground wires, No. 6633 Buffer Kit, No. 5213-T Threading Tool, No. 5218 Pressure-Lube Gun and package of 25 No. 6626-25 Dillectric Nylon Patch units with Filler Rubber.

*Order from your supplier or write for complete details*

THE DILL® MANUFACTURING COMPANY
700 East 82nd St., Cleveland 3, Ohio


## New Products

Continued from Page 290

### Accounting System

*from The Ideal System Co.*
*2437 West Pico Blvd.*
*Los Angeles 6, Cal.*

is especially designed to show truck fleet operation costs. It shows expenses for labor, equipment, improvements, depreciation, advertising, supplies, outside services, insurance and taxes. It's complete in one volume.

### Driver's Seat

*from Milsco Mfg. Co.*
*2758 North 33rd St.*
*Milwaukee, Wis.*

has contour cushion seat, is designed for trucks, tractors, buses, road machinery and other heavy duty mobile equipment. It is available with special riser or with torsilastic suspension as shown in illustration. Mounted

on a steel base, the seat also features four inches of foam rubber on the seat, two inches at the back.

(TURN TO PAGE 294, PLEASE)

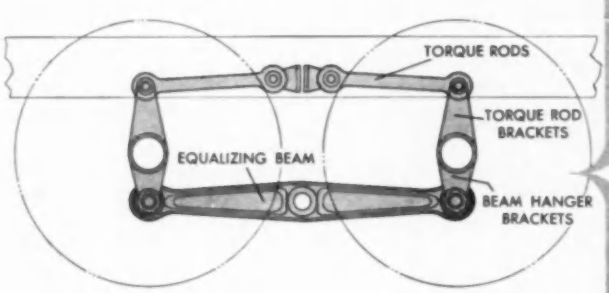
## YEARS OF LEADERSHIP!

**HENDRICKSON TANDEM**

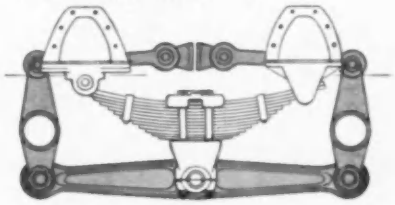
In 1926, Hendrickson, already experienced in the automotive manufacturing field, developed the basic tandem axle suspension design which is today the recognized standard of the industry.

### Why Hendrickson Tandem Suspension is Superior!

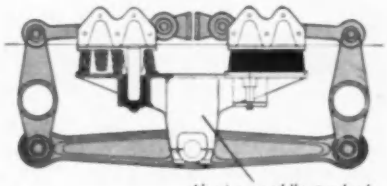
Basis of Hendrickson Tandem Suspensions is the equalizing beam. It uses the lever principle to reduce the effect of road irregularities up to 50% and eliminates load transfer. Below axle suspension gives added leverage to absorb torque and lowers center of gravity. Hendrickson design and torque rod construction permit extreme flexibility while maintaining perfect axle geometry. The springing medium (steel, rubber or air) performs *only* the job of cushioning the load. Rubber bushings eliminate lubrication requirements. The 4-point frame mounting eliminates stress concentration on frame. Hendrickson patented vertical drive pins on "RS" and "AR" Series maintain perfect axle alignment at all times.




RT SERIES, steel springs

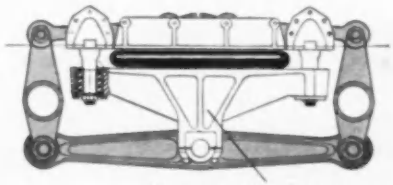


RS SERIES, rubber load cushions



Aluminum saddle standard on "RS" Series.

AR SERIES, air springs



Aluminum saddle and air reservoir, standard on "AR" Series.

ALL HENDRICKSON TANDEM SUSPENSIONS ARE INTERCHANGEABLE BETWEEN TRUCKS, TRACTORS AND TRAILERS — AND ARE ALSO INTERCHANGEABLE BETWEEN MAKES OF AXLES. Parts inventories can be reduced! Fleet operators can specify the design best suited for each particular operation.

**NOW! HEAT TREATED LIGHTWEIGHT FORGED STEEL OR FORGED ALUMINUM EQUALIZING BEAMS FOR ALL THREE SERIES OF HENDRICKSON SUSPENSIONS.**

***STEEL, RUBBER OR AIR SPRINGS IN ONE BASIC DESIGN!***

**HENDRICKSON** MFG. COMPANY • 8001 West 47th St. • Lyons (Chicago Suburb), Illinois

## New Products

Continued from Page 292

### Clearance, Marker Lights

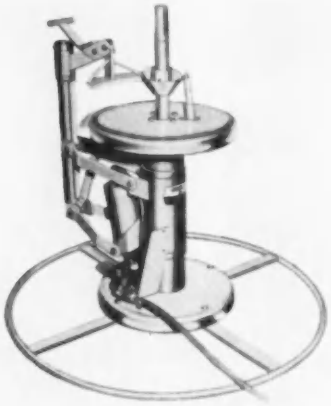
*from Grote Mfg. Co.*
*Bellevue, Ky.*

feature die cast housing, corrosion resistant body, rubber contact plug in the socket. New 260 Series has one basic body, fits both flat and curved mountings by interchanging mounting pads. Available in chrome or painted finish, their overall length is 8 7/16 in. and 3¼ in. wide. Single screw removes the lens.

### Tire Changer

*from Jack P. Hennessy Co.*
*12 Depot Square*
*Englewood, N. J.*

has upper and lower bead looseners both air-operated. Made by the Coates Co., Fort Dodge, Iowa, it is foot pedal operated, loosens bottom bead on up stroke, top bead on return. Specially developed for 14-in. tires, it handles all sizes from 12 to 21 in.



### Seat Suspension

*from Hyman Freedman Co.*
*4401 North Pulaski Rd.*
*Chicago 30, Ill.*

is a rubber torsion model developed in conjunction with General Tire & Rubber Co. Freedman says it is impossible to "bottom" the suspension and there is no "top" to its action, keeping the seat with the driver at all times.

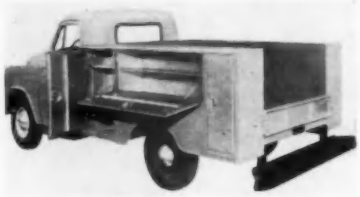
### Soap Dispenser

*from Wohlert Corp.*
*Lansing 5, Mich.*

can be added to all Wohlert vehicle washers. It uses a special stick soap, provides economic soap and water mix so surfaces dry without water marks or streaks without chamois or squeegee, says Wohlert.

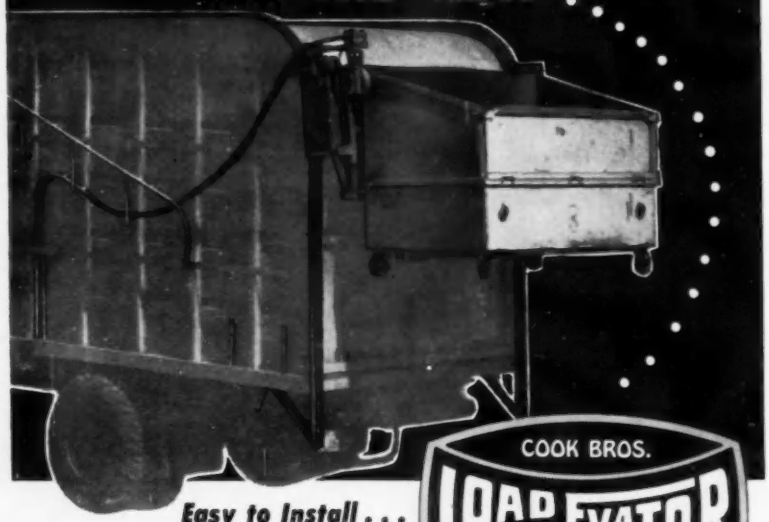
(TURN TO PAGE 296, PLEASE)

### Service Body



**The new Morrison Model 900C service body has "Paddle Locks" on all doors and a safety catch to prevent a partly-closed door from opening accidentally. Major components of the body are bolted together for easier disassembly in the event of damage or repair work. Curbside compartments have full-length material trays with adjustable dividers for standard small parts packaging.**


**Attention Equipment Dealers!**
***Territory Franchises Available For THE NEW***



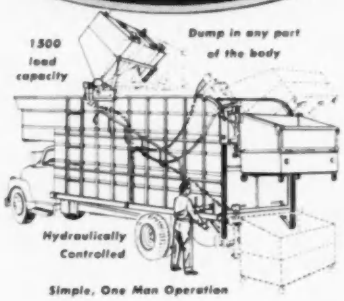
COOK BROS.
LOAD EVATOR
U. S. Patent No. 2798621

***Easy to Install . . .***
***Wide range of application***

**The "Load Evator"** — a simple, efficient, patented loader for handling Bulk Material. It is quickly installed on present or new equipment . . . wood or metal bodies.

**The "Load Evator"** handles 1500 lbs. load and dumps in ANY section of the body to give best weight distribution. Hydraulically controlled — one man operation.

Write NOW for descriptive literature and detailed franchise information




Simple, One Man Operation

CB COOK BROS.
**Cook Bros. Equipment CO.**
3334 San Fernando Road, Los Angeles 65, California
Telephone: CLinton 6-3151

# "Our Mack diesels are used for the country's roughest territory . . . but Purolator Air Filters keep their engines in top condition . . . keep our PM costs way down"

*says Mr. Merle W. Bogan, Service Manager, Smith's Transfer, Staunton, Va.*

PART of the operating terrain of Smith's Transfer—between Staunton, Va. and Charleston, W. Va.—is recognized by truck manufacturers and fleet operators as just about the toughest in the country . . . grueling mountain territory that demands maximum air filter and engine efficiency.

But according to Mr. Bogan, their 175 Mack END 673 diesels show "*no measurable wear on rings, walls, or valves at 250,000 miles and higher, due primarily to the exceptional filtering efficiency of Purolator Air Filters.*"

To insure this outstanding performance, Smith's Transfer uses Purolator Air Filters exclusively. As part of a rigid PM procedure, the dry-type air filters are serviced regularly. Consequently, regardless of road or weather conditions, there has never been a power loss attributed to the air filter.

Most important, Smith's Transfer enjoys the major benefits of extended engine life with lower maintenance cost and a minimum of down time. Even after exceeding the high mileages indicated, there is no appreciable change in fuel consumption. This can be attributed to the combustion efficiency which is almost equal to new-engine performance, and is achieved by preventing power-robbing dirt from entering the engine.

Let a Purolator engineer demonstrate, without obligation, the advantages and economies of air filtration for your particular fleet requirements.

Write or call . . . or send for free literature today.

**MAIL THIS COUPON TODAY!**

Purolator Products Inc.
Dept. I-1158
Rahway, New Jersey
Yes, I want more information about dry-type filtration for fleets.

Name_____

Company Name_____

Address_____

City_____ Zone_____ State_____

**FOR MAXIMUM ENGINE PROTECTION**

**PUROLATOR**

"Purolator" Reg. U. S. Pat. Off.

**Oil, Air & Fuel Filters**

**PUROLATOR PRODUCTS INC. Rahway, N. J.; Toronto, Ontario, Canada**

### Reefer Room

A new "temperature control" room for trucks in the research and development laboratory of the Tranter Mfg. Co., Lansing, Mich., helps to answer problems of truck refrigeration. It is used for trouble shooting refrigeration units as well as testing "Kold-Hold" units made by the company. The room holds up to 35-ft rigs and the temperature can be controlled to any desired degree. By running tests under varying conditions, Tranter can tell a fleet operator what size unit he should use, whether hold-over plates will do the job or if a blower-evaporator unit is needed for his particular operation.

## New Products

Continued from Page 294

### Rubber Lubricant

*from Dow Corning Corp.*
*Midland, Mich.*

is a silicone spray for rubber part lubrication. It comes in 12-oz cans, is nonmelting, nonfreezing and nongumming between —40 to 400 deg F, says Dow Corning. It also can be used to keep weather stripping from freezing in place, protect ignition systems in damp weather, prevent wheel lug nuts from seizing, reduce battery terminal corrosion.

### Trailer King Pin Lock

*from Echart-Trailok Division*
*Otto Industries*
*931 Lehigh Ave.*
*Union, N. J.*

is a cadmium-plated, solid-steel collar that fits around the trailer fifth wheel king pin. When in place, a bar

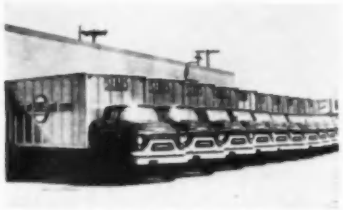
locks it in place against the narrow diameter of the king pin, prevents tractor hook-up until it is removed.

### Stop and Tail Light

*from Betts Machine Co.*
*Warren, Pa.*

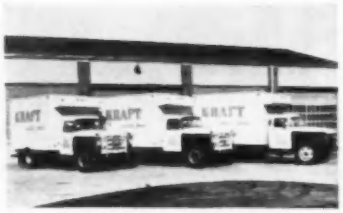
offers 180 deg illumination both head-

(TURN TO PAGE 298, PLEASE)



FOR RETAIL DELIVERIES

FOR BAKED GOODS



FOR DAIRY PRODUCTS

FOR BEVERAGES

FOR TRUCKING

# LYNCOACH TRUCK BODIES

## BEST FOR YOU, TOO!

The "big cube" L-C-T aluminum truck body offers the greatest economies in truck body history. Factory-engineered for quick, low-cost assembly on any chassis.

- **They cost less to buy *and* maintain.**
- **They're stronger, tougher, lighter.**
- **Leak-proof, non-wracking, won't drum.**
- **Maximum interior cubage in three basic models (beaded panel, outside post, 8-pallet beverage body).**
- **Nine body lengths, two standard widths *and* heights.**
- **Seven different door design options.**
- **More completely factory-assembled than any other kit body.**
- **Handsome. Rust-free. Durable.**

*L-C-T truck bodies carry more, protect better . . .*

## YET STILL COST LESS!

DEALER INQUIRIES INVITED

*For more detailed information, without obligation, call or write:*

**LYNCOACH & TRUCK CO., Inc.**

TRUCK BODY MANUFACTURERS SINCE 1929 ONEONTA, N. Y.

## New Products

Continued from Page 296

on and at right angles to the lens axis. Model No. B-70LA combination stop and tail light has a 1 11/16-in. projecting, pry-off, snap-on, "O" ring-sealed lens. It has die cast aluminum housing, rubber socket grommet. It more than meets ICC and SAE specifications.

## Tire Repair Material

*from Ace Rubber Co.*
*P.O. Box 6147*
*Dallas, Texas*

is specially designed to bond with synthetic rubber, is for tube or tubeless tires. Maker says it needs no underpadding or backup rubber. It is comprised of a heavy cured back, a thickness of free-flowing gum rubber with protective holland cloth. With electric vulcanizer, it can be used for shoulder and sidewall injuries as well as tread punctures and bruise breaks, says Ace.

**Kroger proved Stant Tester value**

The Cincinnati Division Garage of Kroger Company noted these benefits from consistent use of this Stant T-250 Precision Cooling System Tester: detection of defective pressure caps, leaking head gaskets, radiator leaks and bad hose; *took guess-work out of maintenance!*

Write for report on Kroger findings to STANT MANUFACTURING CO., INC., Connersville, Indiana, *. . . naming your jobber.*

used on America's Finest Automobiles as Standard Equipment for a generation

EVRSEAL STANT RADIATOR • GAS • OIL CAPS


## Batteries

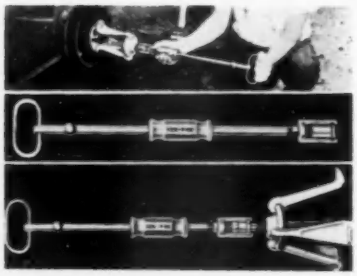
*from Gould-National Batteries, Inc.*
*St. Paul, Minn.*

come in a new series of eight models including both 6 and 12-volt types. Features include, says Gould-National, silver cobalt sealed charge to resist overcharge, thicker and heavier plates, lower antimony content to reduce sulfation rate, improved insulation, greater water capacity.

## Axle Puller Adaptor

*from Ken-Tool Mfg. Co.*
*768 East North St.*
*Akron 5, Ohio*

fits the Ken Model No. T-500 or any similar puller. It's designed to fit



wheel and axle configuration of late model vehicles. Slide hammer jars axle shaft loose.

## Headlamp

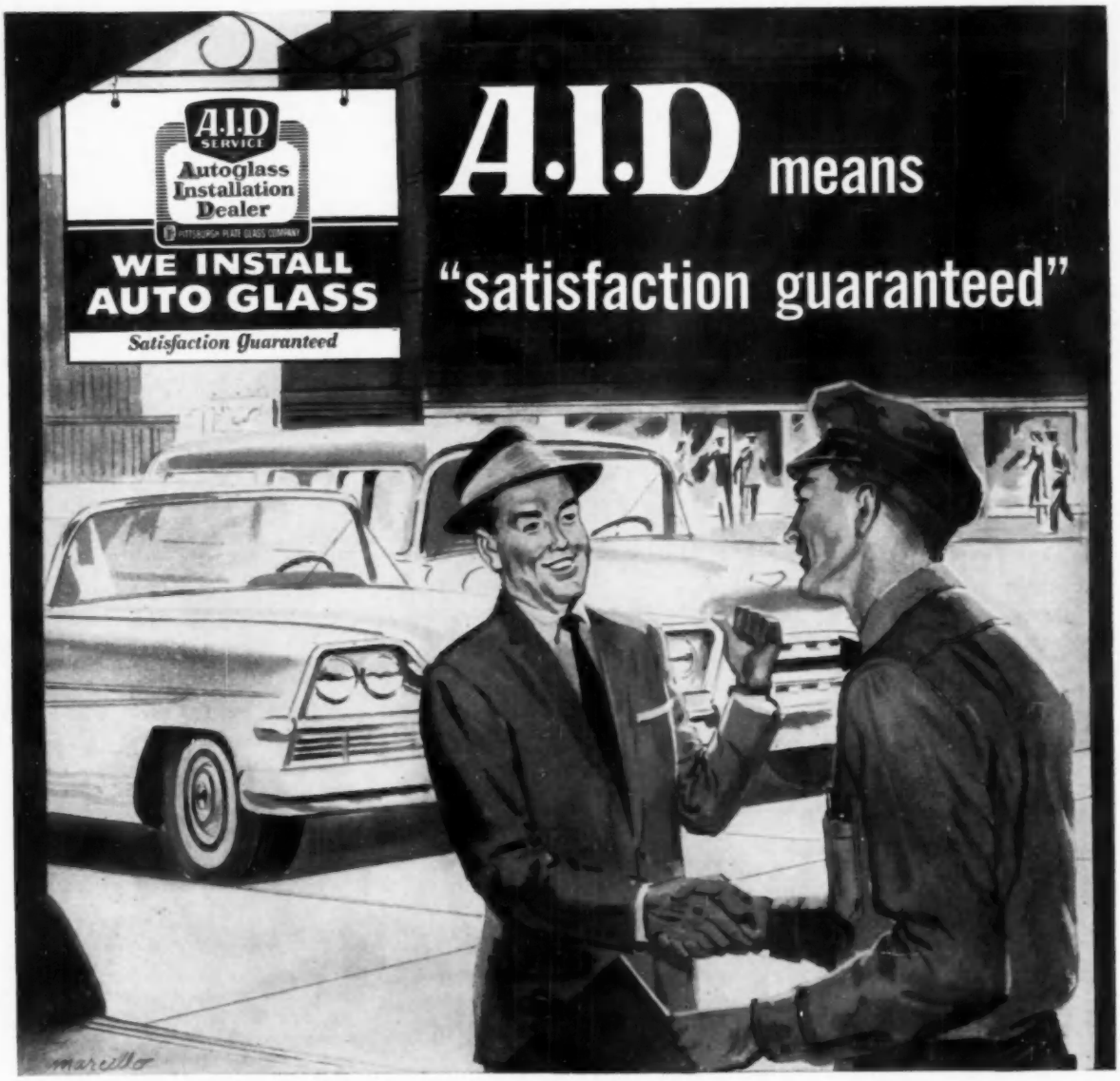
*from National Carbon Co.*
*535 Fifth Ave.*
*New York 17, N.Y.*

is designed for vehicles not having a four-headlight system. It comes in 6 and 12-volt sizes. Low beam is specially designed to throw more light farther down the right side of the road.

(TURN TO PAGE 300, PLEASE)

### Kenworth Tug

**This aircraft towing tractor can pull planes weighing as much as 400,000 lb. Built by Kenworth, it has four wheel or crab steering—can turn in 16 ft. The Kenworth Tug is 63½ in. high and weighs 30,000 lb. It has four-wheel drive, a three-speed torqmatic transmission and a hydraulic torque converter.**




We know first-rate auto glass service is important to you. That's why we recommend the shop that displays the A.I.D. sign.

A.I.D. stands for Autoglass Installation Dealer, who stands for guaranteed quality workmanship at all times. His skilled and speedy service in installing Pittsburgh Plate Safety Glass in your cars and trucks is prompted by a strong sense of personal responsibility to you, the customer.

For unexcelled PPG Safety Glass, installed with care, go to your nearest A.I.D. You can find his name in the Yellow Pages of the phone book, or see him at the shop bearing the green and white A.I.D. emblem.

**ALL PPG AUTOMOTIVE SAFETY GLASS COMPLIES WITH EVERY RECOGNIZED SAFETY CODE**

*Watch the GARRY MOORE SHOW Tuesday nights*

75th ANNIVERSARY 1883–1958

SYMBOL OF SERVICE FOR SEVENTY-FIVE YEARS

PITTSBURGH PLATE GLASS COMPANY

IN CANADA: CANADIAN PITTSBURGH INDUSTRIES LIMITED

## New Products

Continued from Page 298

### Tire Retread System

*from Bandag, Inc.*
*Muscatine, Iowa*

uses no moulds. Pre-treaded top cap is chemically vulcanized to tire using a heating oven to speed chemical reaction. Confining bands hold tire and tread together using normal operating pressures with a tube and mounting rim.

### Valve Lifter Puller

*from Owatonna Tool Co.*
*339 Cedar St.*
*Owatonna, Minn.*

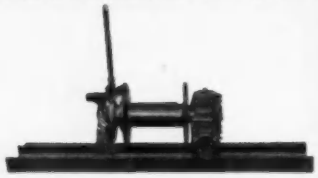
is hydraulic operated. Mechanic first removes lifter spring clip then fits jaws of the new Model No. 501 puller into the spring clip groove of the lifter. As pressure is applied, jaws expand to grip lifter securely.


**If You Own a Truck — You Need a BRADEN Winch!**

Many truck owners say the most useful piece of equipment they own is a winch. That's because a winch saves hundreds of man-hours a year by taking over those handling jobs that are difficult to do without mechanical help.

Pictured below are two of the smaller BRADEN winches that have hundreds of uses. They are designed for smaller trucks or tractors . . . are easy to operate and made to last.

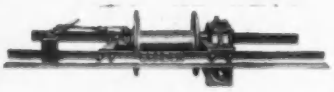
See your nearest BRADEN dealer for information on the entire line of BRADEN Truck Winches.



**MS3-7 and MS3-10**

Capacity: 8000 pounds

They have many features that were formerly found only on much larger winches. They are easy to install . . . easy to operate . . . and easy to maintain.



**MSU3-10**

Capacity: 8000 pounds

Underslung model for under body mounting behind cab, and the "F" series for front end mounting. Ideal for ½ and 1 ton trucks with tanks, dump bodies or other equipment.

*Write for Catalog*

BRADEN WINCH COMPANY
P. O. Box 547, Broken Arrow, Oklahoma

BRADEN Winches

*In service around the world*


### Diesel Cleaner

*from Pennsylvania Refining Co.*
*2686 Lisbon Rd.*
*Cleveland 4, Ohio*

is designed to dissolve and remove diesel gum and varnish from the engine, keep injector nozzles and injectors clean, remove moisture from fuel. Called Diesel Gumout, maker says initial application is two pints to 50 gal of fuel, one pint to 150-gal fuel thereafter.

### Cylinder Boring Machine

*from Cedar Rapids Engineering Co.*
*Cedar Rapids, Iowa*

has capacity of 3 to 6¾ in. Larger cylinders can be handled with special equipment. Stroke is 18 in. It features automatic retraction, three-

finger centering, non-distorting anchoring, V-belt spindle drive, preloaded spindle bearings. Four speeds and four feeds make possible 16 speed/feed combinations.

### Enamel Reducer

*from Ditzler Color Division*
*Pittsburgh Plate Glass Co.*
*632 Fort Dusquesne Blvd.*
*Pittsburgh 22, Pa.*

gives dependable spray control in spite of adverse weather conditions including cold and dampness, says the maker. It is said to provide a more uniform distribution of metallic particles when used with metallic colors.

### Transmission Parts

*from Toledo Steel Products*
*Cleveland, Ohio*

now include a complete line of parts for automatic transmissions. Line covers all models since 1940.

(TURN TO PAGE 302, PLEASE)

# UNIVAN IS LOADED FOR PROFIT *because it's loaded with money-saving construction features*

Low overall weight of Univan Aluminum Van Bodies means larger, more profitable legal payloads. Bonus construction features give maximum cube plus plenty of strength. Aluminum's serviceability gives low maintenance and operating costs, long rust-free life. Result: maximum hauling profits on your investment.

See your Unisteel distributor or write the factory for full details on Univan—the aluminum truck body *loaded with features so you can load it for profit.*

**UNIVAN BONUS FEATURES**

- **Exclusive One-Piece Stressed-Skin Roof** gives greater rigidity, sheds water and snow for more positive rust protection and weatherproofing.
- **Hat-Section Frame Members** for extra strength, less weight.
- **Close-Spaced Ribs** 4" apart for greater rigidity.
- **Interlocking Corner Cap Castings and Corner Posts** for true alignment, rigidity, longer life.
- **Steel Rear Corner Castings** take greater impact at dock level.
- **Serrated Rub Rails** resist dents, scratches; corrugated for strength.
- **Z-Section Roof Bows and Wall Posts** for greater strength with less weight, extra rigidity.

UNISTEEL HERCULES GALION PRODUCTS, INC.

**UNISTEEL BODY COMPANY**

DIVISION OF HERCULES GALION PRODUCTS, INC. Galion, Ohio

# HUNTER HEATERS

for gas or diesel tractors, delivery bodies, special purpose equipment

- gasoline or LP-gas combustion heaters
- shirt-sleeve warmth at low cost, at all times — on or off the road
- safe, dependable, conform to ICC regulations
- operate independent of vehicle engine
- thermostatically controlled, heat rating 5,000 to 15,000 BTU/hr.
- continuous spark ignition, unfailing combustion, sub-zero starting
- exhaust gases vented to the outside
- eliminate costly wear and damage caused by engine idling
- fuel supplied from vehicle tank or auxiliary tank as required
- economical to operate, use minimum of fuel
- compact, easy to install, easy to service

Write for descriptive literature and complete specifications

HUNTER MANUFACTURING CO. 30525 AURORA RD. SOLON, OHIO

HEATING AND REFRIGERATION SYSTEMS


## New Products

Continued from Page 300

### Rod Aligner

*from Sunnen Products Co.*
*7910 Manchester Ave.*
*St. Louis 17, Mo.*

has extended checking surface especially designed to permit accurate check of short stroke connecting rods for bend, twist and offset. New Model No. TN-111 has a precision ground

surface on a stress relieved casting. Rods can be checked with or without caps or pistons. It has self-aligning yoke clamps, comes complete with V-block, bend and twist indicator and bending bar.

(TURN TO PAGE 304, PLEASE)

### Classified Advertisements


PLASTIC DECALS FOR TRUCKS AND BUSES; tough, permanent, waterproof Vinyl plastic; can be applied without water. Write for free samples, estimates. Multi-Color Process Co., 319 South Quincy, Tulsa, Oklahoma.

WANTED: USED GM51-71-110 Diesel Injector Parts. A1, 7120 Carnegie Avenue, Cleveland 3, Ohio.

CAR WASHERS

AUTOMATIC ALL PURPOSE SYSTEM REVOLUTIONIZES VEHICLE WASHING

WRITE FOR INFORMATIVE FOLDER

Wohlert Corporation LANSING 5 MICHIGAN

GLEDHILL

SNOW PLOWS

"V" PLOWS — from 8' to 9½' swath — nose heights 30" to 54". WINGS — 10' to 12' — partial or complete hydraulic control.

TAPER PLOWS — 9' to 12' length of cutting edge — full range of heights — reversible and adjustable or one-way.

STRAIGHT PLOWS — reversible — 9' to 12' lengths — heights from 29" to 42".

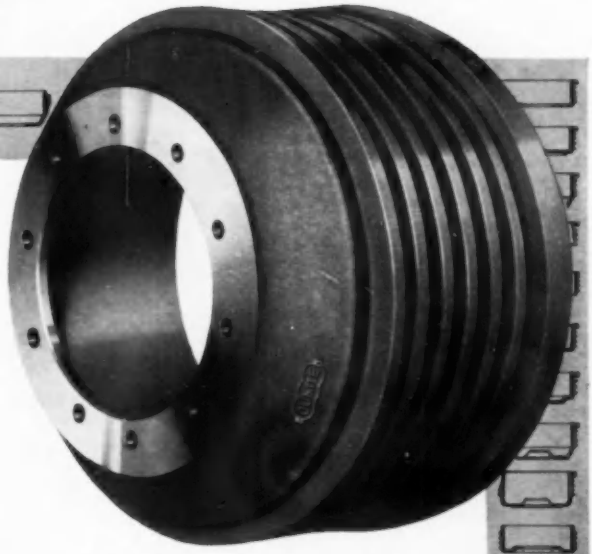
RIGHT-V-LEFT — hydraulic control in cab converts right hand taper to "V" and to/or left taper while in motion.

PLUS CUSTOM DESIGNS AND SIZES

The Gledhill Road Machinery Co.
Galion, Ohio

*a company built by customer confidence*

# THIS IS THE MOST COPIED BRAKE DRUM IN THE WORLD . . . BUT NOT THE ONLY TYPE MADE BY GUNITE!



The nation's leading maintenance supervisors know GUNITE to be a full line house that can be relied on. GUNITE can readily provide over 800 sizes and types of heavy duty brake drums.

AVAILABILITY is just another good reason why smart maintenance supervisors rely on GUNITE.

GUNITE brake drums and wheel assemblies are used by virtually every heavy duty truck and trailer manufacturer in the United States. A full stock of replacement parts is readily available for these through a national network of over 120 leading distributors.

When you need prompt drum service, deal with GUNITE!

**HEADQUARTERS FOR HEAVY-DUTY BRAKE DRUMS AND WHEELS FOR TRUCKS, TRAILERS, BUSES, and SPECIAL EQUIPMENT**

**GUNITE**

**GUNITE FOUNDRIES CORPORATION**
ESTABLISHED 1854
Rockford, Illinois

*Designers and manufacturers of brake drums and wheels for trucks, trailers, buses, and special equipment.*

## New Products

Continued from Page 302

### Socket Wrenches

*from S-K/Lectrolite Tools*
*Chicago 32, Ill.*

come in four different series—¼-in. drive, ⅜-in. drive and two series of ½-in. drives. Also new is a hose clamp plier. This chrome-plated tool has two-position adjustment to accommodate various size clamps.

### Automotive Wiring

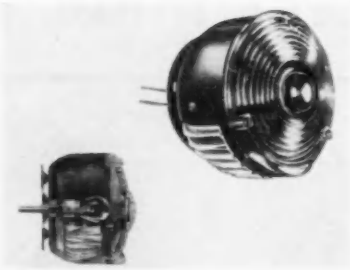
*from Belden Mfg. Co.*
*Chicago 80, Ill.*

has nylon jacket. Belden says it's serviceable for temperatures up to 300 deg F, is unaffected by steam cleaning or chemicals and detergents used in steam cleaning. Insulation is silicone rubber wrapped in glass yarn braid with nylon outer jacket. New wiring comes in sizes 8 through 16 in 100-ft lengths, is impervious to heat, moisture, oil, grease and fumes.

### Multi-Purpose Light

*from Signal-Stat Corp.*
*523-539 Kent Ave.*
*Brooklyn, N. Y.*

serves as stop light, tail light, license plate illuminator, Class A directional signal. Available in both universal and bolt-type mounting, the new "Cyclostat" 21 Series lights have



4⅛-in. shatter resistant plastic lens, brass socket, thermo-plastic wiring, rubber socket seal, black enamel finish, rimless construction. They come in 6, 12 or 24-volt models.

### Rebuilt Generators

*from Arrow Armatures Co.*
*11½ Fordham Rd.*
*Boston 34, Mass.*

are available for late model cars including 1958's. Arrow says they have been completely disassembled, stripped to bare metal, every part cleaned and checked, faulty parts replaced, carefully reassembled, then tested under conditions more severe than actual expected use.

### Tube Cutter

*from Imperial Brass Mfg. Co.*
*6300 West Howard St.*
*Chicago 48, Ill.*

handles ⅛ to 1⅛-in. OD tubing, hard or soft temper. Larger cutting wheel

(TURN TO PAGE 306, PLEASE)


Save Money FOR YOUR FLEET!

get the 4 big economies only ATI "Engine-Mated" MUFFLERS provide

1. You won't have to pay fines for noise violations because ATI "Engine-Mated" mufflers meet every recognized noise standard.
2. You get lower costs per mile since these mufflers meet engine manufacturers' requirements as to back pressure to give you greater fuel mileage, greater horsepower, better engine performance.
3. You save on replacements because ATI mufflers last longer, many giving over 100,000 miles of good service . . . are fully guaranteed against defects in material and workmanship!
4. You save on maintenance since ATI mufflers eliminate the excessive heat that causes burned valves, warped heads, cracked manifolds.

Start saving today! Contact your nearest ATI distributor for proof of these many exclusive ATI benefits. (If you don't know his name, write direct.)

ATI ENGINE-MATED HEAVY DUTY MUFFLERS

ALEXANDER-TAGG INDUSTRIES, INC.
Also Manufacturers of ATI Dual Wheel Dollies
HATBORO, PA. OSborne 5-7200

NOW 4 WAYS TO ROLL 'EM SAFER! FASTER! LONGER!

Write us for literature and your nearest distributor

WILLIAMS' SAFETY SYSTEMS

1 ANTI-JACKKNIFE SYSTEMS—Williams' newest contribution to truck safety. Simple to install, low in cost, positive in results.

2 COMPRESSION BRAKE KITS—Engine retardation spares drums and shoes on downhill runs, adds life to the engine, too. Now available for gas and Diesel.

3 TRAILER BREAKAWAY SAFETY KIT—The oldest, most efficient, safest and most complete breakaway system.

4 EMERGENCY CONTROL SYSTEMS—New sealed-in, axle-by-axle or chamber-by-chamber emergency system with its own separate air supply system. Simple to install, easy to maintain, efficient in operation.

MANUFACTURED BY THE PIONEER IN BRAKE SAFETY:
POWER BRAKE EQUIPMENT CO.
1632 S. E. 11th Avenue Portland 14, Oregon

# When the tractor is the factor ...in Ohio

## A PENN *Aluminum* Duckbill Truck Body *gets better payloads!*

Yes, BIGGER PAYLOADS, and no fooling! You see, *the tractor is the factor* because it is engineered for the job. The duckbill design of this ruggedly-built lightweight Penn Aluminum Truck Body permits it to be mounted within six inches of the cab for full swing, right and left! The extreme forward location of the fifth wheel of 52 inches made possible by the duckbill body design, places more weight on the tractor front axle. Such engineering allows a transfer of up to 6,000 pounds additional payload to the front axle—to tip the beam at 41,000 pounds or 20½ tons. (Legal payload in Ohio)

Now then, check these dimensional points of interest: The trailer is 29 feet long with a bridge formula of 35 feet. The Penn Aluminum Duckbill Truck Body is 26 feet in length, and has a 31 cubic yard capacity.

### It's equipped with the Penn Front Mounted Hoist

So it works hand-in-hand with the Penn Aluminum Duckbill Truck Body! The Penn telescopic hoist with a long overlap of the cylinders for rigidity, and a special integral air cushion device to absorb shock handles the large load easily and safely.

### Don't Overlook This New Feature!

To guard against vibration build-up, a rubber liner is stripped along the trailer. This protection is reinforced by four rubber cushioned hold-down devices that hold the body fast when empty!

**PENN BODY DIVISION** HOCKENSMITH CORPORATION

PENN, PA. Call: Jeannette, Pa. LAfayette 3-5401 . . . Pittsburgh, Electric 1-1242

## New Products

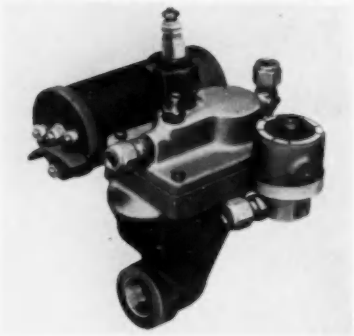
Continued from Page 304

results in faster cutting. It has retractable reamer, flare cut-off groove, spare cutting wheel, ball thrust bearings.

### Engine Primer

*from The Houston Co.*
*P.O. Box 417*
*Wallingford, Conn.*

eliminates difficulties in starting cold engines down to minus 65 deg F, says the maker. It is a self-heat generating unit which vaporizes fuel, blends it with air, sends the combustible mixture to the cylinders. It has no moving parts, works on 6 or 12-volt systems.



### Zipper Tarpaulin

*from W. A. Plummer Mfg. Co.*
*752 South San Pedro St.*
*Los Angeles 14, Cal.*

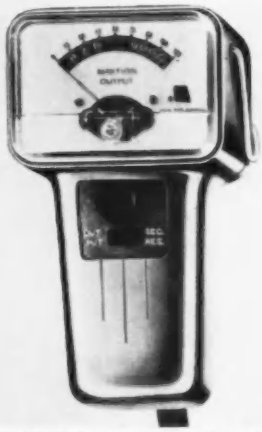
comes in 5, 10 or 20-ft widths in lightweight, 3, 6 or 12-ft widths in medium duty, 4, 8 or 12-ft widths in heavy duty weight. Widths zipper together to form a tarpaulin of any size.

Standard lengths are 12, 20 or 50 ft with any length available on special order. Also available is a 1-in. wide grommet panel that zips on to finish a tarp. Lightweight material is either polyethylene or polyethylene-coated paper or cotton. For medium duty, materials offered include polyethylene, vinyl-coated nylon or waterproof canvas. For heavy duty applications, a vinyl-coated nylon is offered.

### Coil/Condenser Tester

*from Harvey E. Hanson Co.*
*Lake Blvd. and Commercial St.*
*Paw Paw, Mich.*

has a single-reading, three-color 3⅜ x 2⅜-in. dial. Shows condition of



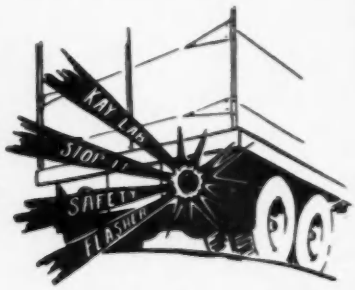
either 6 or 12-volt units. Operates on two pen light batteries, can be used for road testing. It can also be used

(TURN TO PAGE 308, PLEASE)


**"KAY LAB"**

FOR DEPENDABLE QUALITY PRODUCTS

*KAY LAB is repeatedly the choice with every City, County and State government requiring flashing lights on emergency vehicles because only Kay Lab has the features specified.*



**"STOP-IT" SAFETY FLASHER**
Finest flasher made. Makes lights flash on-and-off. Used for flashing warning signals and directional signals. Available in 4 types. Will flash any auto lamp to 64 candlepower, 5 ampere, standard ratings 6 or 12 Volts.

**ALTERNATING FLASHER**
HEAVY DUTY. Meets requirements of State Laws for alternating flashing signals. Up to 15 amperes, 6 or 12 Volts. No parts to wear out; requires no lubrication, no upkeep. Operates magnetically. Good for lights or horn signals.

*Write for Folders, prices and name of nearest Jobber*

**MACCHI & COMPANY**
819 Valencia Street, San Francisco 10, Calif.



**It's Easy!** with a 'Bos' HYDRAULIC TRUCK TIRE DEMOUNTER

Now you can remove the most stubborn truck tire from the toughest rim quickly and easily . . . with no aching back or lost profits.

**HANDLES ALL SIZE TRUCK TIRES, WHEELS AND RIMS UP TO, AND INCLUDING, 14:00 x 24.**

Hein-Werner Hydraulic Unit

**SATISFACTION GUARANTEED OR YOUR MONEY BACK!**

WRITE
**THREE STAR SALES CORP.**
12 Depot Square • Englewood, N. J.



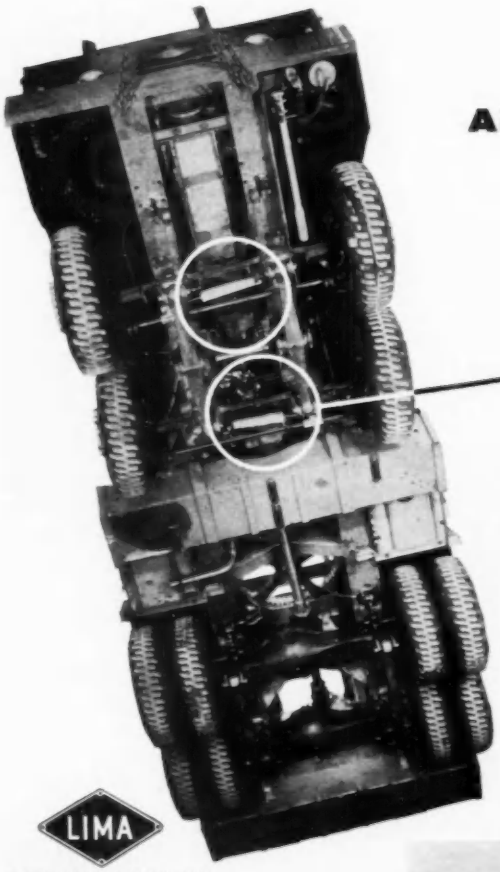
**MECHANEX WHEEL OIL SEALS**

for SURE, ECONOMICAL bearing protection

Major fleets everywhere are finding Mechanex Wheel Oil Seals pay for themselves many times over in reduced maintenance costs. Forget wheel packs — switch to oil, sealed with Mechanex . . . the ONLY face-type seal for truck and trailer axles.

Available on ALL makes of new trailers —and at Trailer Branches and leading Parts Suppliers

THE mechanex CORPORATION
1144 Broadway, Denver, Col.



## ALL DUAL-AXLE EQUIPMENT

*handles easier with*

# GARRISON

## POWER STEERING!

You can get extra production from any heavy, wheeled vehicle with Garrison Effortless Power Steering! That's why most leading manufacturers of the new dual-axle 4-wheel steering units now offer Garrison Power Steering as standard or optional equipment installed at the factory. Kits for relatively simple field installations are also available for use on almost all existing equipment.

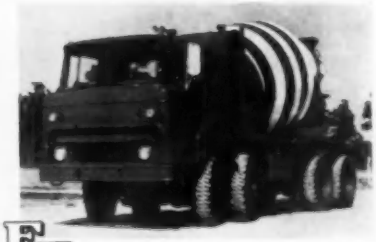
To get more work from your trucks, cranes, motor graders and other wheeled vehicles, both dual and single axle... and to ease the effort required from your operators, *insist on Garrison* Power Steering; efficiency-proved; safety-proved by thousands of installations from coast to coast!

LIMA

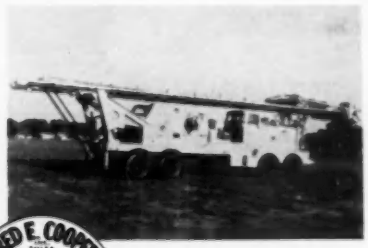
BALDWIN-LIMA-HAMILTON

THE LORAIN

DIAMOND T TRUCKS



FWD THE FOUR WHEEL DRIVE AUTO CO.

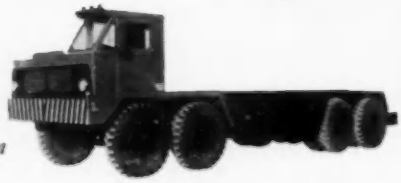


FRED E. COOPER TULSA DRAW WORKS SPUDDERS WINCHES

COOPER OIL WELL SERVICING UNIT

CLARK EQUIPMENT

Crane Carrier Corporation



GARRISON Manufacturing Co. Inc

4609 East Sheila Street
Los Angeles 22, California

## New Products

Continued from Page 306

to check shorts in ignition harness, secondary coil resistance, circuit condition.

### Engine Heater

*from Phillips Mfg. Co.*
*2816 Aldrich Ave. South*
*Minneapolis 8, Minn.*

is a 2000-watt, zero start, external type unit. It can be adapted to either 110 or 220-volt power, can be used on any liquid-cooled engine. Quick-heat-

ing element circulates warm coolant through engine. It comes complete with fittings and 5-ft, 3-prong electrical cord.

### Acrylic Finish

*from The Arco Co.*
*7301 Bessemer Ave.*
*Cleveland 27, Ohio*

comes in colors matching those being used on many '59 models. Arco says the new acrylic finish is free of nitrocellulose, can be used more like a regular refinishing enamel than earlier formulations. Maker also says it dries fast, builds a better film with fewer coats, dries with long lasting high gloss.

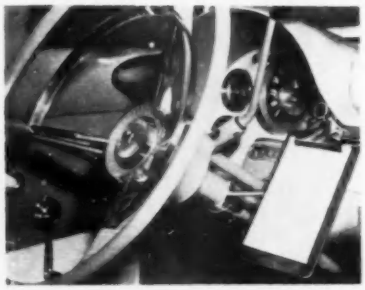
### Off its Trolley?

**Toll collector Fred Vance at the Irwin interchange collects the toll for the first trolley to cross the Pennsylvania turnpike. E. A. Gallagher and Sons of Philadelphia completed the haul without incident.**

### Cab Desk

*from Auto-Desk Co.*
*1147 East Miner Rd.*
*Cleveland 24, Ohio*

can be mounted in passenger cars, multi-stop truck cabs, also. It keeps route lists, maps, prospect lists, job orders or safety patrol observation re-



ports handy. Masonite clip board mounts on steel arm that attaches to steering column, can be adapted for southpaws as well as right handers. Various size clip boards are available.

### Tire Sealer

*from United States Rubber Co.*
*1230 Ave. of the Americas*
*New York 20, N. Y.*

is a rubber powder designed to make passenger car tubless tires puncture sealing. US Rubber says tubeless

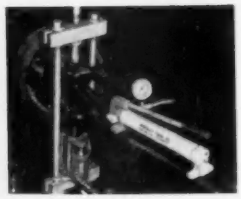

DO IT THE "WRIGHT" WAY

*New* 30 TON HYDRAULIC
**KING PIN REMOVER**

Removes all tapered and straight pins—in MINUTES.

Designed and developed in cooperation with leading manufacturers of trucks, buses and off-highway equipment.

Save labor, reduce down-time and eliminate damage to costly parts.



**New 100 ton hydraulic axle tube puller and installer.**

Removes and installs axle tubes or sleeves in 95% less time. The hydraulic pump supplies a continuous flow of power to the ram which eliminates several ram resets. The 100 ton ram travels 10 inches and is powered by a remote control electric or hand operated pump.

*Saves labor and down-time on the job.*

WRITE FOR LITERATURE—
WRIGHT TOOL COMPANY
4316 N. Woodward
Royal Oak, Michigan

USED
GUARANTEED
**TRUCK TUBES**
*For Immediate Delivery*

900 x 20 & 1000 x 20 ..... $3.00 Each
750 x 20 & 825 x 20 ..... 2.50 Each

Also
USED TRUCK TIRES—ALL SIZES

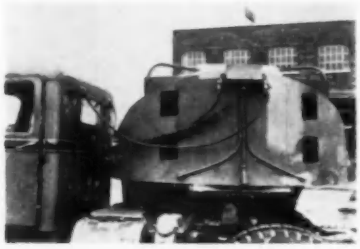
**The Washington Rubber Waste Co., Inc.**
3141 Washington Blvd. Baltimore 30, Md.
PHONE: Milton 4-3710

tires containing 2½ oz of the powder can go 48 hours or more after being punctured even when puncturing object has not been retained in the tire.

## Trailer Light Cables

*from Autac, Inc.*
*P.O. Box 1071*
*New Haven, Conn.*

are pre-coiled, measure 13 in. retracted, stretch to 16 ft in use. They



come in 4, 6 or 7-conductor types, are neoprene jacketed. Built-in coiling keeps cable from fouling when turning or parking

## Headlamp

*from Westinghouse Electric Corp.*
*Bloomfield, N. J.*

is new model for use on vehicles not having four-headlamp system. It gives added light on right side of road on low beam. It comes in 6 and 12-volt types.

## Oil Absorbent

*from The Bares Co.*
*13210 Shaker Square*
*Cleveland 20, Ohio*

is able to absorb 425 per cent of its weight in oil alone, can be used to soak-up grease and water also. The absorbent is basically aluminum silica, is dustless and non-inflammable . . . except when full of oil or grease. It is UL approved.

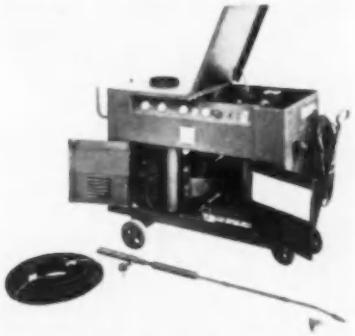
### The Biggest Yet

**The longest trailer ever built has four axles. It's 68 ft long, 10 ft wide, and has two bathrooms among other things. Made by the Mayflower Trailer Co., Torrance, Cal., it takes eight 12 ply tires furnished by B. F. Goodrich to support it.**

## Steam Cleaner

*from Circo Equipment Co.*
*51 Terminal Ave.*
*Clark, N. J.*

comes in two sizes—Model No. 275 is a 110-volt, 1½-hp unit, Model No. 360



is a 220-volt, 3-hp unit. Both have 15-gal fuel capacity, 15-gal concentrated cleaning solution capacity. Once started, automatic controls maintain proper operation.

## Starter Solenoids

*from Cole-Hersee Co.*
*Boston, Mass.*

are plasticized and waterproof. Described as "all metal" units, they are

(TURN TO NEXT PAGE, PLEASE)


the ULTIMATE in trouble-free vapor proof SAFETY LAMPS

WARREN Snap Seal TURN SIGNAL B-90

now a vapor-proof double faced directional

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- LONG LIFE
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B-40JL Lic., Stop, Tail, Jct. Bx.

B-50L License, Stop, Tail

B-60 Clearance

B-70A Stop and Tail

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BETTS MACHINE CO.
WARREN, PENNA.

## New Products

Continued from page 309

available for 6 or 12-volt applications, with grounded or insulated operating coils, universal flat or curved-type mounting brackets, three or four terminal studs.

### Hose and Couplings

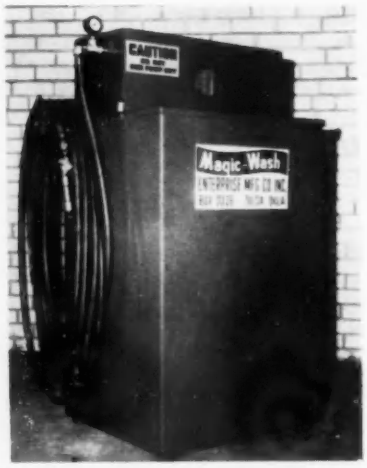
*from Alemite Division, Stewart-Warner 1826 Diversey Parkway Chicago 14, Ill.*

include "Buna-N" low pressure hose and "Shur-Lock" couplings. Couplings are designed for up to 250 psi working pressures, have minimum burst pressure under normal conditions of 1000 psi. Hose has synthetic rubber inner tube reinforced with fabric braid with smooth neoprene outer cover. It does not require skiving when used with "Shur-Lock" couplings. No special tools are required. Hose covers low pressure range, has temperature range of minus 40 deg to plus 275 deg F. Reusable couplings are brass.

### Vehicle Washer

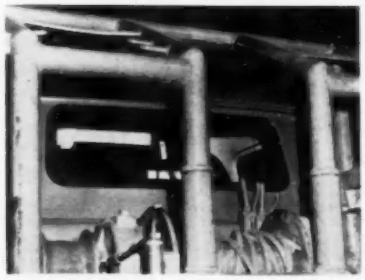
*from Enterprise Mfg. & Chemical Co. P.O. Box 2246 Tulsa, Okla.*

is portable, has high pressure pump to dislodge encrusted mud before using chemical spray. The new Model




No. 280 is a chemical detergent type washer, washes passenger cars, says Enterprise, in 10 min.

### Sliding Window



**For operators with rear winch-equipped vehicles, this sliding rear window permits drivers to straighten cables and operate levers without leaving the cab. Made by the Barber Glass and Mfg. Co., Oklahoma City, Okla., the sliding window can be installed in any truck without special modifications. The glass area is the same as standard rear windows.**

### One-End Lift

*from Blackhawk Mfg. Co. Milwaukee 46, Wis.*

is a 1½-ton air-operated model. The new Model No. SJ-51 has a two-way lever valve using either a tire inflator or quick coupler. Lifting arms extend from 14 to 48 in. Saddles measure 5

(TURN TO PAGE 312, PLEASE)

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OUT-PERFORMS ALL THE REST!

In tests supervised by the U.S. military, the Bendix* Electric Fuel Pump proved itself over a temperature range from +150°F to −65°F. No other pump anywhere near its price class could equal this performance. Here, in dramatic form, is proof of the everyday superior performance that the Bendix pump delivers on trucks and buses.

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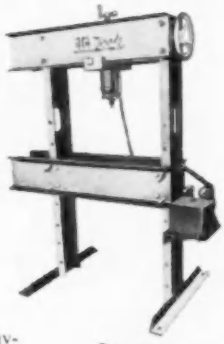

This deal is worth looking into! Get all the details about the special press features, the range of sizes and capacities, the famous OTC Power-Twin center-hole hydraulic rams and pumps which are detachable for use with OTC pullers.

You'll find out why an OTC hydraulic shop press is the unit for you and your shop . . . and why the special "bonus deal" which is going on right now is worth your while. Your OTC distributor has all the details.

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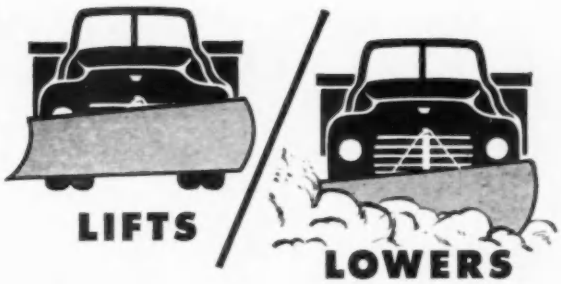


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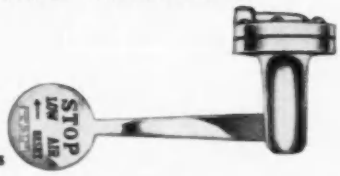


These positive warning signals never fail to alert operators to danger of low air pressure or low vacuum.

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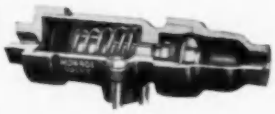

Automatically removes moisture, oil and sludge from air lines. Unit mounts in any position - above, below or at the side of compressor tank.

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2 AD-15

## New Products

Continued from Page 310

x 5 in. Tricycle wheel design has swivel nose wheel, large steel rear wheels. Support legs are 25½ in., spread out for added stability.

### Tachometer

*from Fox Valley Instrument Co.*
*Straits Highway*
*Sheboygan, Mich.*

tests all battery ignition systems from 6 to 24 volts. Fox says the new Model No. 346 is guaranteed accurate to within two per cent of full scale reading. Overall dimensions are 8 x 5 x 2½ in. with 4½ in. square clear plastic meter face. It is flashlight battery powered, comes with 5-ft leads.

### Fuel Tanks

*from Michigan Fleet Equipment Co.*
*2350 Chicago Drive, S.W.*
*Grand Rapids, Mich.*

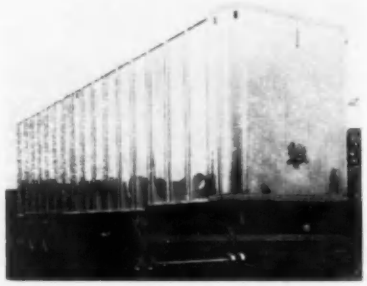
are lightweight, aluminum models with four years of road testing behind them. The new safety fuel tanks are UL approved, meet ICC requirements.

### Distributor Tester

*from Allen Electric & Equipment Co.*
*2101 North Pitcher St.*
*Kalamazoo, Mich.*

is an AC-operated model with speed range to 8000 rpm. New Model No. 31-02 tests 6, 12, 24 or 32-volt distributors with single or double contacts. Variable speed drive operates in both forward and reverse rotation. Chuck has three jaws and is ball bearing mounted. Arrow-shaped light pinpoints distributor firing pattern.

### New Kingham Van



**This new Model No. WKAALX Kingham cargo van weighs only 8,900 lb mounted on a sliding tandem. It has a capacity of 2,240 cu ft. Inside height is 99 in. Inside width is 94 in. Called the "High, Wide and Handsome," the trailer is available as a 35 ft model with single or tandem axles.**

### Headlamp

*from Guide Lamp Division,*
*General Motors*
*Anderson, Ind.*

is a new 7-in. model for vehicles not having the new four-headlamp system. Lower beam puts more light along right hand side of road. Available for both 6 and 12-volt systems, it gives 100 watts on low beam.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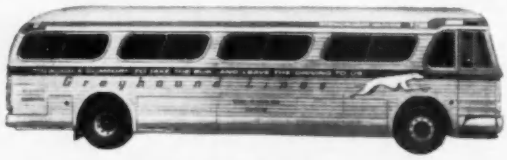

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